

Brigham Young University



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BRIGHAM YOUNG UNIVERSITY

Graduate Catalog

1952-53



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No. 2

RICHARD M. YOUNG
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Graduate Catalog
1971-72



Richard M. Young University
1000 North 10th Street
Tulsa, Oklahoma 74103

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Calendar of Events 1952-53

AUTUMN QUARTER

- September 19 (Friday), 9:00 A.M.:** First faculty meeting.
- September 22, 23, 24, 25 (Monday, Tuesday, Wednesday, Thursday), 8:00 A.M.:** Orientation and placement tests for all Freshmen and Sophomores who will register at B.Y.U. for the first time. Late fees will be charged all new students who fail to appear for orientation and placement tests at 8:00 A.M. Monday.
- September 26, 27 (Friday, Saturday), 8:00 A.M.:** Registration for all regular and special students. Students will register in alphabetical order to be announced.
- September 29 (Monday):** Class instruction begins.
- October 10 (Friday):** Last day for entering classes.
- November 7 (Friday):** Last day for withdrawal from classes without teacher approval.
- November 27-28 (Thursday, Friday):** Thanksgiving recess.
- December 5 (Friday):** Registration for Winter Quarter (one day only).
- December 17, 18, 19 (Wednesday, Thursday, Friday):** Examination period.
- December 19 (Friday):** Autumn Quarter closes.

WINTER QUARTER

- January 3 (Saturday):** Registration for new students.
- January 5 (Monday):** Opening of Winter Quarter. Class instruction begins.
- January 16 (Friday):** Last day for entering Winter Quarter classes.
- February 13 (Friday):** Last day for withdrawal from classes without teacher approval.
- March 6 (Friday):** Registration for Spring Quarter (One day only).
- March 18, 19, 20 (Wednesday, Thursday, Friday):** Examination period.
- March 20 (Friday):** Winter Quarter closes.

SPRING QUARTER

- March 21 (Saturday):** Registration for new students.
- March 23 (Monday):** Opening of Spring Quarter. Class instruction begins.
- April 3 (Friday):** Last day for entering Spring Quarter classes.
- May 1 (Friday):** Last day for withdrawal from classes without teacher approval.
- June 2 (Tuesday):** Senior Day.
- June 3, 4, 5 (Wednesday, Thursday, Friday):** Examination period.
- June 6 (Saturday):** Alumni Day.
- June 7 (Sunday):** Baccalaureate Services.
- June 8 (Monday):** Seventy-eighth Commencement Exercises.

SUMMER QUARTER

June 15 (Monday): Registration for the Summer Quarter.

Schedule of Final Examinations

Fall, Winter, and Spring Quarters

Autumn: December 17, 18, 19.

Winter: March 18, 19, 20.

Spring: June 3, 4, 5.

For classes which are held daily; four days per week; Monday, Wednesday, and Friday; Monday and Wednesday; Monday and Friday; Wednesday and Friday; or Monday, or Wednesday, or Friday. (Examination is not more than two hours in length.)

Regular Class Recitation Hour	Examination Period	
7:45 a.m. classes	Thursday	7:45--9:40 a.m.
8:50 a.m. classes	Friday	7:45--9:40 a.m.
11:00 a.m. classes	Thursday	9:55--11:50 a.m.
12:00 noon classes	Wednesday	1:00--2:55 p.m.
1:00 p.m. classes	Thursday	1:00--2:55 p.m.
2:05 p.m. classes	Friday	9:55--11:50 a.m.
3:10 p.m. classes	Wednesday	7:45--9:40 a.m.
4:10 p.m. classes	Friday	1:00--2:55 p.m.
5:10 p.m. classes	Wednesday	1:00--2:55 p.m.

For classes which are held on Tuesday and Thursday; or Tuesday; or Thursday. (Examination is not more than one hour in length.)

Regular Class Recitation Hour	Examination Period	
7:45 a.m. classes	Thursday	3:10--4:00 p.m.
8:50 a.m. classes	Friday	3:10--4:00 p.m.
9:55 a.m. classes	Wednesday	3:10--4:00 p.m.
12:00 noon classes	Thursday	12:00 noon
1:00 p.m. classes	Wednesday	4:10--5:05 p.m.
2:05 p.m. classes	Friday	4:10--5:05 p.m.
3:10 p.m. classes	Wednesday	5:05--5:55 p.m.
4:10 p.m. classes	Friday	5:05--5:55 p.m.
5:10 p.m. classes	Thursday	5:05--5:55 p.m.

General Administrative Officers

THE BOARD OF TRUSTEES

OF

THE BRIGHAM YOUNG UNIVERSITY

DAVID O. McKAY	President
STEPHEN L RICHARDS	First Vice-President
J. REUBEN CLARK, JR.	Second Vice-President
JOSEPH FIELDING SMITH	MATTHEW COWLEY
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EXECUTIVE COMMITTEE OF B.Y.U.

JOSEPH FIELDING SMITH
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 ADAM S. BENNION
 ERNEST L. WILKINSON

PRESIDENT OF THE BRIGHAM YOUNG UNIVERSITY

ERNEST L. WILKINSON

Graduate Faculty Administrative Officers

President	Ernest L. Wilkinson
Dean of the Graduate School	Asahel D. Woodruff

THE GENERAL COMMITTEE

Professor Joseph K. Nicholes, at large, term expires 1953.

Professor B. F. Harrison, at large, term expires 1954.

Professor P. A. Christensen, at large, term expires 1955.

Professor George H. Hansen, at large, term expires 1955

Professor David Yarn, Group A (Archaeology, Church History and Philosophy, Scripture, and Semitic Languages), 1955.

Professor Gerrit deJong, Jr., Group B (Art, English, Modern and Classical Languages, Music, Speech and Dramatic Arts), 1955.

Professor Richard Poll, Group C (Agricultural Economics, Economics, History, Political Science, Psychology, and Sociology), 1954.

Professor Milton Marshall, Group D (Chemistry, Geology and Geography, Mathematics, Physics), 1954.

Professor Raymond Farnsworth, Group E (Agronomy, Animal Husbandry, Bacteriology, Botany, Home Economics, Horticulture and Landscape Architecture, Zoology and Entomology), 1953.

Professor R. L. Smith, Group F (Accounting, Business Administration, Finance and Banking, Journalism, Marketing), 1953.

Professor A. Reed Morrill, Group G (Educational Administration, Elementary Education, Philosophy of Education and Guidance, Physical Education, Secondary Education), 1953.

The Dean, Chairman ex officio.

The President, ex officio.

COMMITTEE ON GRADUATION

Leonard W. Rice, chairman; Richard D. Poll, Kenneth C. Bullock.

The office of the Graduate School is in Room 225, Science Building. The office is open between 9 and 12, and 1 and 5. Student conferences with the Dean by appointment.

HEADS OF DEPARTMENTS

Accounting	Robert J. Smith
Agricultural Economics	A. Smith Pond
Agronomy	Raymond B. Farnsworth
Animal Husbandry	Grant Richards
Archaeology	M. Wells Jakeman
Art	Bent F. Larsen
Bacteriology	Jay V. Beck
Botany	Bertrand F. Harrison
Business Administration	Richard L. Smith
Chemistry	Joseph K. Nicholes
Church History and Philosophy	B. West Belnap
Economics	A. Smith Pond
Education	Reuben D. Law
Educational Administration	Reuben D. Law
Elementary Education	A. Reed Morrill, acting
English	Parley A. Christensen
Finance and Banking	Herald R. Clark
Geology and Geography	George H. Hansen
History	Russell B. Swensen
Home Economics	Irene S. Barlow
Journalism	Oliver R. Smith
Marketing	Weldon J. Taylor
Mathematics	Milton Marshall
Modern and Classical Languages	Harold W. Lee
Music	John R. Halliday
Philosophy of Education and Guidance	Wesley P. Lloyd
Physical Education	Charles J. Hart
Physics	Milton Marshall
Political Science	Russell B. Swensen
Psychology	Asahel D. Woodruff, acting
Scripture	Sidney B. Sperry
Secondary Education	A. John Clarke, acting
Semitic Languages	Sidney B. Sperry
Sociology	Ariel S. Ballif
Speech and Dramatic Arts	Harold I. Hansen
Zoology and Entomology	Vasco M. Tanner

REGULATIONS GOVERNING STUDY BEYOND THE BACHELOR'S DEGREE

Character of Graduate Work

Status as a graduate student implies a degree of maturity and responsibility such that the faculty is not called upon to inform the student of his obligations or to see that he fulfills them. The attainment of each higher degree is preceded by a series of orderly steps. **Failure to take each step in its turn will automatically stop the progress of the student at that point.** Failure to read the regulations of the Graduate School cannot be considered a valid excuse for not having fulfilled the requirements. **The student is expected to initiate every step in his program.** These steps include provisions of all necessary credentials prior to consideration for admission, scheduling interviews with chairmen of departments in which he is specializing, selection of the members of the Special Committee and getting their written agreement to act, scheduling meetings of the Special Committee, inquiring about the qualifying examination, developing a research problem and getting it approved and reported to the Dean of the Graduate School at the proper time, application for approval for graduation, scheduling of the final examination, and filing of approved copies of the thesis in the proper places and at the proper time.

Graduate students should call at the Office of the Graduate School for all forms used in meeting the requirements of their programs, and **see that all reports due in that office are filed by themselves, personally, on time.** Questions pertaining to their work should be discussed with the Dean, the Special Committee, or the Chairman of their major or minor department. In most instances, the Special Committee will be able to advise the student in his problem.

The Faculty

The Faculty of the Graduate School has jurisdiction over all study beyond the bachelor's degree, whether the student registers for graduate or undergraduate credit, in residence or extension, or for study not intended to be used for a higher degree. Students who hold the bachelor's degree are required to register with the Dean of the Graduate School **and must obtain admission to the Graduate School through procedures described below before they will be permitted to register.**

A full listing of the Faculty of the University may be found in the General Catalog. Members of the Graduate Faculty are listed, in this catalog, under the name of the De-

partment in which they have primary membership, and for whose major and minor fields they are eligible to act on the Special Committees of Graduate Students.

Admission to the Graduate School

FOR DEGREE SEEKING STUDENTS

Applications must be submitted at least one month prior to registration day, or it is doubtful that they can be acted on in time to permit the student to register as a degree-seeking student. The alternative is to register during that quarter as a non-degree student eligible to take graduate credit, but not to count such work toward a degree at this institution except in special cases described under the master of education degree, item 1.

A regular student must have been officially admitted to the Graduate School prior to any registration intended to apply on a higher degree. Previous admission to the University as an undergraduate student does not constitute admission to the Graduate School. Admission may be obtained as follows: An application for admission submitted to the Dean of the Graduate School, accompanied by a transcript of credit earned prior thereto, by scores on the Graduate Record Examination, and by recommendations from three persons not related to the applicant and not members of the staff of his proposed major department, who can certify to his fitness for graduate work. The recommendations must be on forms provided by the Graduate School. These forms and credentials must be inspected by the Chairman of the Department in which the student proposes to do his major work, and have his approval, together with that of the Dean of the Graduate School and of the Admissions Committee of the University. The student must bring his official notice of acceptance to his first registration as a graduate student. Without it he cannot register. No one not so registered may be considered for a higher degree.

Applicants are required to submit with their applications scores obtained from the Graduate Record Examination. These examinations are administered in Utah and elsewhere four times yearly, in February, May, August and October. For information on dates, registration, and costs, write to Educational Testing Service, Box 9896, Los Feliz Station, Los Angeles 27, California. Those in states east of Colorado should write to Educational Testing Service, P. O. Box 592, Princeton, New Jersey. Application forms may also be had from the Counseling Office in the Maeser building. Applica-

tions must be made three or more weeks prior to the date of the examination. Students who do not take the test in time for use with application, can be admitted only on a tentative or a non-degree basis. In general, applicants are expected to take all three parts of the examination, selecting the advanced test nearest to their anticipated graduate major field. However, those planning to major in Agronomy, Animal Husbandry, Archaeology, Bacteriology, Journalism, Music, Speech, Zoology and Entomology, need take only the aptitude and profile tests, unless they wish to select an advanced test in which they feel able to do reasonably well.

FOR NON DEGREE SEEKING STUDENTS

Students who hold the bachelor's degree, but who have no intention of seeking an advanced degree at this institution, may register for either undergraduate or graduate credit with the Dean of the Graduate School as do all other graduate students, except that they need not furnish recommendations, or scores on the Graduate Record Examination, or be approved by a Department Head for admission to the Graduate School, nor do they need to choose a Special Committee. Credit earned under such conditions may not be used at this institution at a subsequent date to fulfill the requirements for a higher degree unless the student gains admission to the Graduate School in the usual way before the course in which the credit is earned has ended. This provision applies also to the accumulation of residence.

GRADUATE CREDIT FOR SENIORS

If, during any quarter of the senior year, a candidate for a baccalaureate degree finds it possible to complete all requirements for such a degree with a registration of fewer than sixteen quarter hours of undergraduate credit, he may register with the Dean of the Graduate School for graduate credit to the extent that the total registration shall not exceed sixteen quarter hours during the quarter. Written verification that all requirements have been met must be obtained from the appropriate undergraduate Dean, and presented to the Dean of the Graduate School prior to such registration. A student so registered may be credited with residence at the graduate level for a fraction of a quarter equivalent to the fraction which his graduate registration constitutes of his total registration. Students who exercise this privilege must be willing to limit their course load and employment load as do graduate students. This is the only condition under which an undergraduate student may receive graduate credit for a course and this registration does not constitute admission to the Graduate School. If the student intends to continue to-

ward a higher degree, he should make immediate application for admission to the Graduate School. Some graduate courses may be taken by undergraduates for use in their baccalaureate programs if they obtain permission of the instructor. Such permission presupposes readiness of the student to do the work ordinarily required in the course.

Organization

The Graduate School is a University-wide organization of departments which offer graduate courses. Such departments occupy a dual position. In certain combinations they constitute the several undergraduate colleges and in their undergraduate functions are administered by the Deans of the undergraduate colleges. Taken in total, they also constitute the Graduate School and in their graduate functions are administered by the Dean of the Graduate School and the respective department heads. These functions consist of maintenance of a curriculum of graduate courses, those which carry ONLY a number above 200, publication of all information on the graduate program, assignment of staff members to graduate courses, determination of conditions for admission to the Graduate School and of the requirements for graduate degrees, passing upon completion of all requirements for graduate degrees, and, together with the respective undergraduate deans, the respective department heads, the President of the University, and the Board of Trustees, sharing in recommendations for the selection and advancement of members of the University Faculty.

The Faculty of the Graduate School consists of the President of the University, the Dean of the Graduate School, the Director of the Research Division, and all professors, associate professors, and assistant professors in the regular faculty of the University who hold the doctor's degree, or who have been members of a graduate student's Special Committee at any time during the preceding three years, or who are teaching a recognized graduate course. Instructors may become members by majority vote of the Graduate Faculty.

The chief administrative body of the Graduate Faculty is the General Committee which consists of three groups: (A) The President of the University and the Dean of the Graduate School, ex-officio; (B) Four members of the Graduate Faculty elected by the Graduate Faculty from the Graduate School at large for staggered terms of three years; and (C) Seven members of the Graduate Faculty, one of which shall be elected from each of the following groups of Departments by those members of the Graduate Faculty within such Departments, for a term of three years, elections to be held so as to stagger the terms of the seven members.

The departmental groups follow:

- (a) Archaeology, Church History and Philosophy, Scripture, and Semitic Languages.
- (b) Art, English, Modern and Classical Languages, Music, Speech and Dramatic Arts.
- (c) Agricultural Economics, Economics, History, Political Science, Psychology, and Sociology.
- (d) Chemistry, Geology and Geography, Mathematics, Physics.
- (e) Agronomy, Animal Husbandry, Bacteriology, Botany, Home Economics, Horticulture and Landscape Architecture, Zoology and Entomology.
- (f) Accounting, Business Administration, Finance and Banking, Journalism, Marketing.
- (g) Educational Administration, Elementary Education, Physical Education, Philosophy of Education and Guidance, Secondary Education.

The General Committee is empowered to act in place of the Graduate Faculty on all student petitions, and on departmental requests for approval of faculty members for use in graduate instruction and supervision.

The Special Committee of individual graduate students who are seeking higher degrees have supervision of and responsibility for the work of those students. A graduate student is responsible first to his Special Committee, then to the Chairman of his major department, and finally to the Dean of the Graduate School. He has no connection with an undergraduate college and no responsibility to an undergraduate dean. Membership on Special Committees is limited to professors, associate professors, and assistant professors in the regular faculty who hold the master's or doctor's degree, or who are judged by the Graduate Faculty to have a background equivalent to the master's degree, provided that each may act only in the field of his special competence. Instructors may so act only if they are approved by the Graduate Faculty.

Graduate courses may be offered by visiting, acting, or regular members of the faculty of Brigham Young University who hold the rank of professor, associate professor, assistant professor, or special lecturer, and who hold the master's or doctor's degree, or are judged by the Graduate Faculty to have a background equivalent to the master's degree. For courses in accounting a CPA certificate is recognized as meeting this requirement, and for courses in business law, an LL.B. degree is so recognized. Instructors who are similarly qualified may give graduate courses when approved by the Graduate Faculty.

Degrees Offered and Requirements

The Master of Arts degree is awarded upon fulfillment of the following requirements:

1. Satisfaction of the foreign language requirement for the A.B. degree.
2. The passing of a test of ability to express ideas clearly in English. Students whose performance is not deemed satisfactory by the department are required to enroll in English 201, a non-credit course in Problems of Thesis Writing, offered especially for graduate students. The course is equivalent to two credit hours, and is regarded as part of a student's registration for that amount. Other graduate students are also invited to enroll in the course, which will include a discussion of the official manual for thesis writing. Those required to enroll must show progress in the course as evidenced by the final mark, which is determined by the instructor of the course and the Chairman of the student's Special Committee jointly on the basis of work done in the course and the final examination. The course should be taken at the earliest possible time.
3. Completion of 45 or more quarter hours of credit in graduate courses, except that up to 15 hours of upper division credit may be used to meet this requirement if the courses are approved by the Special Committee at the time of registration for them, and if the instructor is eligible to teach graduate courses. At least 23 of the hours must be in the major field and at least 15 in a field other than the major field; at least three-fourths must be of grade B or better, and none may be of a grade lower than C. At least 15 hours in the major field and 10 hours in the minor field must consist of courses for which there is a systematic body of subject matter identified with a given course number, such as ordinarily constitutes a formal course. Seminars, special readings, and special problems may not be included in these totals. A maximum of nine quarter hours of graduate extension credit may be applied toward a Master of Arts degree, provided such credit has been earned through the Extension Division of this institution and was approved by the Director of the Extension Division and the Dean of the Graduate School at the time the student registered for the credit. Such credit must, however, be closely allied to the major subject. Up to 15 hours of credit earned in residence may be transferred from another university by approval of the Special Committee and the General Committee, provided, however, that not more than 15 hours of combined extension credit and transferred credit be applied to fulfillment of the requirements for the Master of Arts degree. Forms

for petitioning for such transfers are available in the office of the Graduate School.

4. Three full quarters of residence in the Graduate School must be completed before graduation. See definition of *residence* below.
5. Up to one quarter of residence may be transferred from another university by approval of the Special Committee and the General Committee. Forms for petitioning for such transfer are available in the office of the Graduate School.
6. Completion of a thesis based upon work done in some field of the major department, work in which the student finds and selects a research topic, acceptable to all the members of his Special Committee, and develops it in such a way as to prove his capacity to conduct sustained, systematic, and independent study. However, a student whose major is English, or Music Theory, or Theatre and Dramatic Art, or Painting and Sculpture, or Design, may substitute for the thesis requirement a piece of creative work which in its inception and completion meets the approval of the graduate faculty of the major department as well as that of the Special Committee. At the beginning of his research or creative work the student must provide the chairman of his Special Committee with an outline or prospectus of the work he proposes to do, and secure the necessary approval described above on a form available in the Graduate School office. He must then deliver the approval form and a copy of the prospectus to the Dean of the Graduate School. He will be required to complete at least one full quarter of resident study after the date on which the form and the prospectus are delivered to the Dean. The first complete draft of the thesis must be in the hands of the Chairman of the Special Committee on a date set by the student and the chairman. This date should be set as early as possible to avoid congestion in the reading and the typing of theses, especially in the quarters within which convocations are held. The final complete and signed, but unbound, copies of the thesis must be on file in the offices of the Graduate School and of the Chairman of the Special Committee throughout the 15 days preceding the final examination, and not later than 30 days before graduation. **Otherwise the examination may not be held as scheduled.**

In the preparation of the thesis the following regulations must be followed:

(a) **Style and Form.** *A Manual for Writers of Dissertations*, by Kate Turabian, shall be used as the guide. Other manuals may be used for supplementary help where needed, but the Turabian manual shall take precedence in any case of difference.

(b) **Paper.** The first copy must be on 16 pound bond, with 100 per cent rag content, with water marked margins, 1¼ inch on the left and 1 inch on the other margins, the grain of the paper to run the long way of the page. Other copies should be on 100 per cent rag content bond paper, not lighter than 13 pound, and may be without the water-marked margins.

(c) **Carbon copies.** These must be made with Carter's Midnight Carbon Paper, carbons to be changed often enough for acceptable legibility.

(d) **Typing.** This must be done with standard elite or pica type, but not with both; spacing may be either 1½ or double.

(e) **Reprints.** Should the thesis be published, reprints may be substituted for the typed copies provided they are in acceptable form for binding.

(f) **Binding.** For the sake of uniformity, binding must be done through Students' Supply Association.

(g) **Delivery of theses.** The student's responsibility for binding and delivery of the thesis will be completed upon submission to the Graduate Dean of a receipt from the Students' Supply Association indicating delivery to it of the original and first and second carbon copies identified as such in pencil on the title page, ready for binding, and payment of the binding fee.

(h) **Abstracts.** Each candidate is required to furnish abstracts of his Master's thesis, one abstract to accompany each copy of the thesis. The abstract is to have a maximum word limitation of 1400 words, and should be bound with the thesis, following the bibliography.

7. **Securing of approval for graduation, and of permission to schedule the final examination.** At the time of registering for courses which will complete all credit requirements for the degree, the student must file with the Dean on a form provided by him, a request for such approval. The examination should not be scheduled until this approval is obtained. Forms for scheduling the examination are available in the office of the Graduate School. **It is the duty of the student to schedule the final examination after obtaining the names of the examining committee from the chairman of his major department.**
8. **The passing of a final oral examination not less than fifteen days prior to graduation.** This examination is to be conducted by a committee of five voting members, to be made up of the members of the Special Committee, plus others appointed by the Chairman of the Major Department to bring the total up to five. The Chairman of the Special Committee is in charge of the examination. Four

affirmative votes are needed to pass. Other members of the Graduate Faculty may attend the examination and enter the discussion, but they may not vote.

9. Completion of all requirements within a five year period, except by special permission of the General Committee of the Graduate School. This regulation became effective in all cases beginning with the school year 1948-49.
10. All candidates who present less than one and one-half quarters of residence earned in full-time residence, or whose programs have extended beyond a period of four years, are required to pass a written comprehensive examination of from 6 to 8 hours on their fields of specialization. The examination is prepared and administered by the regular examination committee.

The Master of Science degree is awarded upon fulfillment of requirements 2 to 10 listed above.

The Master of Education degree is awarded on the basis of the requirements indicated in the two following plans:

Plan I

This plan is for students who have not yet decided definitely to pursue a Master of Education degree, but is limited to prospective majors in educational administration, elementary education, and secondary education.

1. Acceptance in the Graduate School as an unmatriculated major in one of the three fields named above. This requires completion only of an application form, without letters of recommendation, and a transcript or official letter from the registrar of the institution which awarded the bachelor's degree, in evidence thereof. This admission permits the individual to register for any desired courses for which he has the prerequisites. Registration may be completed with the Dean of the Graduate School or his representative, and does not require a committee or the approval of any other persons.

Each of the three departments participating in this plan has indicated in the catalog certain courses which must be taken in residence. Other courses may be taken in extension. Any courses offered by a department may be applied toward a major or minor in that department, if the student subsequently meets the other requirements which follow.

2. Admission to full degree status prior to any attempt to plan a field project or otherwise engage in serious planning of the final stages of a degree program. This may be accomplished as indicated on pages 11-12 of the Graduate Catalog for those working on other plans, except that the

prohibitions on use of credit do not apply here. For those on Plan I, Graduate Record Examination scores **must** be supplied **with** the application for a degree status, or it will not be considered.

3. Completion or requirement number 2 under Plan II.
4. Completion of requirement number 3 under Plan II, except that the student is not limited in his use of extension credit, provided he meets all other requirements.
5. Completion of requirements 4 to 9 under Plan II.
6. The Special Committee, described on pages 21-22, must be set up immediately upon admission to full degree status, at which time the meeting described in those pages must be held, and the remainder of the student's program carefully outlined.

Plan II

This plan is for those who definitely intend to seek a Master of Education degree with a major in educational administration, elementary education, personnel and guidance, philosophy of education, physical education, or secondary education. Those majoring in the first, second, or last named field may elect Plan I if they choose.

1. Acceptance in the Graduate School as a fully matriculated major in educational administration, elementary education, personnel and guidance, philosophy of education, physical education, or secondary education (see page 11). This acceptance must be completed prior to the completion of any course which is to be applied on a degree at this institution.
2. Completion of requirement number 2 under the Master of Arts degree.
3. Completion of 45 or more quarter hours of credit in graduate courses, plus the field project. Up to fifteen hours of upper division credit may be used to meet this requirement if the courses were approved by the chairman of the Special Committee at the time of registration, and if the instructor was eligible to teach a graduate course. At least 23 of the hours must be in the major field, and at least 15 in a minor field; at least three-fourths must be of grade B or better, and none may be of a grade lower than C. Not fewer than 15 hours in the major field and 10 hours in the minor field must consist of courses for which there is a systematic body of subject matter identified with a given course number, such as ordinarily constitutes a formal course. Seminars, special readings, and special problems may not be included in these totals. A

maximum of 12 quarter hours of graduate extension credit may be applied to the degree, provided such credit has been earned through the Extension Division of this institution and was approved by the Chairman of the Special Committee and the Dean of the Graduate School at the time the student registered for the course. Such credit must, however, be closely allied to the major or minor subject. Up to 15 hours of graduate credit earned in residence (that is, on the campus) may be transferred from another university by approval of the Special Committee and the General Committee, provided, however, that all such transferred credit is deducted from the amount of extension credit allowed for the degree. Forms for petitioning for such transfers are available in the office of the Graduate School.

4. One and one-half quarters of residence as a **full-time student** must be completed before graduation. See definition of *residence* in the Graduate Catalog. No residence may be transferred from another institution.
5. Completion of a satisfactory field project, under registration with the chairman of the Special Committee, for not less than 4 hours of credit. The project shall be an attack on a practical problem in the field of the candidate's interest as a teacher. The problem is to be selected and developed by the student, subject to the approval of all members of his Special Committee. The topic must be filed in the office of the Graduate School at the time of registration for the project. The finished report on the project shall conform to the requirements for a thesis in matters of style, format, and manner of filing. See requirement 6 under Master of Arts degree, beginning with the fifth sentence.
6. Completion of not less than one year of experience as a teacher, preferably before beginning on the field project.
7. Securing of approval for graduation, as outlined for the Master of Arts degree.
8. Passing of the final examination as indicated for the Master of Arts degree.
9. Completion of all requirements within a five year period, except by special permission of the General Committee of the Graduate School.

Major and Minor Fields

Graduate students must select their major and minor fields from among those enumerated under the name of each department in the Graduate Catalog.

Residence and Limitation on Credit Load

Regular students who register for study intended to apply on a higher degree, and who serve as teaching assistants, laboratory assistants or readers, or who engage in other activity aside from their courses of study will be required to reduce their registration in proportion to the amount of non-course work in which they are engaged. For purposes of calculating such reductions a registration of 16 hours, the maximum allowed in any one quarter, will be considered equal to a work week of 48 hours. In calculating such reductions, six hours will first be deducted from the work schedule, and the formula applied to the remainder of working time. For example: A student is employed 18 hours per week, and has registered for 6 hours of graduate credit, and 6 hours of undergraduate credit having no application to his degree. He is allowed to work 6 hours without restriction, but must be restricted on the basis of the additional 12 hours of employment. This is equivalent to 12/48 of a full load, so he may register for not more than $\frac{3}{4}$ of a full load of courses. His maximum is thus 12 hours of credit.

Special students who register for study intended to apply on a higher degree and who are engaged in full time employment, may register for not to exceed five hours of credit per quarter, provided that they may not register for more than two courses per quarter, and may receive residence equivalent to $\frac{1}{15}$ of a quarter for each hour of credit successfully carried. Registration in the Summer Session is limited to 8 hours per term and 16 hours for the whole session.

Residence shall be defined as registration and attendance in courses, seminars, field classes, or other types of instruction conducted on the campus of Brigham Young University during a regular quarter. A full quarter of residence is defined as full-time study on the campus, properly registered, throughout one entire quarter, with a registration of not less than six quarter hours, and with not more than six clock hours of paid employment per week. Students who serve as teaching assistants, laboratory assistants, or readers, or who engage in other activity aside from their study for more than six clock hours per week will be credited with less than a full quarter of residence during the quarter so engaged. Such reductions will be calculated in the manner used for calculating the number of hours of credit one may carry.

In the example cited above, residence is reduced as follows: Employment beyond the allowed six hours (12 hours is the penalty amount) cuts residence to $\frac{3}{4}$ of a quarter. However, since only half of the registration is devoted to meeting requirements for the master's degree, the student receives only half of the residence he would otherwise earn, or $\frac{3}{8}$ of a quarter.

The Special Committee

A Master's Committee must consist of two or more members. It is recommended that it be two rather than three or more. The representative of the major field is the chairman. The members of the committee who represent the major or minor fields shall, after conference, jointly advise the student concerning fulfillment of requirements in his fields and assist the student in planning his registration so these requirements may be met. **This planning should take place at the earliest possible point in the student's program.** As a result the student and each member of his committee shall have a written record of what is to be required of the student in the matter of courses, seminars, research, or any other experience essential to his graduation, throughout his entire program. **The chairman of the Committee must give written approval of each registration card before it is presented to the Dean for his signature.** If the Special Committee has not been set up prior to the first registration the registration card must be approved by the chairman of the major department.

After the student has selected his major and minor fields he must select at least one eligible member of the faculty to represent each field and to serve as a member of his special Committee. The names of those eligible to serve are listed under the names of the departments in connection with the courses of instruction. The selection should be made after consultation with the chairmen of the departments in which the major and minor fields lie. The names of the committee members selected must be reported to the Dean of the Graduate School, and their signatures must be obtained by the candidate on a form provided for the purpose **within five weeks of the date of the first registration as a graduate student.**

At the end of each quarter the Special Committee will report to the Dean of the Graduate School on forms provided for the purpose whether the work of the student has been satisfactory during the quarter, and recommend whether the student shall receive residence credit for the quarter. No residence may be credited to the student on work deemed unsatisfactory by a majority of the Special Committee or by the Chairman of the Special Committee. The record of residence in the Graduate School office shall be regarded as official.

A student may change the membership of his Special Committee with the approval of all members of the newly constituted committee and subject to the approval of the Dean of the Graduate School, but after such a change he must plan his program anew with the new members of his committee as he did with the original committee.

Admission to Candidacy

A graduate student who has been in residence one quarter or more, who has passed a qualifying examination, whose thesis subject has been approved, and who has given evidence of ability to do work of a graduate character may be, on the recommendation of his Special Committee, admitted to candidacy for a higher degree. **No more than two quarters of residence may be earned by any student who has not been admitted to candidacy for a degree.**

Summer Quarter

The summer quarter is one of the regular quarters of the school year. A large corps of teachers, supplemented by well known educators from other institutions, offers a wide range of subjects from each of the departments of the school.

The summer quarter is divided into two terms so that students may be in attendance only part of the summer, if they desire, without hindrance to the completion of their courses. Graduate students may register for not to exceed eight credit hours per term.

UNIVERSITY FEES

(All fees are payable in advance)

Regular College and Graduate Students

	Autumn	Winter	Spring	Total
Tuition	25.00	25.00	25.00	75.00
Building, Gymnasium, Student Activity, and Health Fees	25.00	25.00	25.00	75.00
Total	50.00	50.00	50.00	150.00

Special College and Graduate Students:

	Tuition	General *Service	Total
Minimum Fee	\$ 5.00	\$ 2.00	\$ 7.00
Two credit hours	6.00	3.00	9.00
Three credit hours	9.00	4.00	13.00
Four credit hours	12.00	5.00	17.00
Five credit hours	15.00	6.00	21.00
Six credit hours	18.00	7.00	25.00
Seven credit hours	21.00	8.00	29.00
Eight credit hours	24.00	9.00	33.00
Nine credit hours	27.00	10.00	37.00

*This General Service Fee does not include Health Service or Student Activity privileges.

(Maximum special registration is nine credit hours.)

Special students are subject to the **late** registration fee.

Special students auditing courses shall pay the same tuition as students taking private courses for credit.

Special students taking private work only, for credit, shall pay in addition to the instructor's fee \$3.00 per credit hour, but shall not be subject to the late registration fee or the general service fee if all the work for which they register is private.

Miscellaneous Fees:

Special Equivalency examinations per credit hour.....\$ 3.00
(The maximum fee in any one subject shall not exceed \$25.00.)

Student teaching fee (for those who elect Secondary Education 184, or Elementary Education 184) 5.00

Fee required by Department of Secondary Education for examinations prior to admission to student teaching (depending on tests selected) 2.00 to 5.00
Additional fee for late application 2.50 to 5.00

Graduation fee 10.00

Registration for graduation (for those not previously registered during the current school year). 2.50

Change of registration fee, for each change slip presented after the first week of each quarter 1.00
(Veterans will be required to pay this fee personally; it cannot be billed to the Veterans Administration.)

Graduate Record Examination8.00 - 12.00

Late Registration Fees:

Students who register after the officially scheduled registration days are required to pay a late registration fee of \$1.00 the first day, \$2.00 the second day and through the remainder of the first week, and \$3.00 after the first week. **One is not registered until fees are paid.** (Veterans will be required to pay these fees personally; they cannot be billed to the Veterans Administration.)

Departmental Laboratory Fees

(Per class per quarter, except as otherwise indicated)

Agronomy 20, 21, 22	\$ 1.00
Agronomy 101, 197, 203	2.00
Agronomy 103	3.00
Agronomy 106, 293, 295, 297	3.00
Agronomy 41, 107, 205	2.00
Animal Husbandry 21, 150	2.00
Animal Husbandry 5, 154	2.50
Animal Husbandry 155, 156	1.50
Art 62, 63, 147, 148, 157, 162, 163	1.50
Art 64, 164	5.00
Bacteriology 21, Health 21	2.00
Bacteriology 101, 169, 181, 182, 293	4.00
Bacteriology 200, 201, 202, 299	5.00
Botany 95, 140, 245	2.00
Botany 150	5.00
Botany 155, 156, 158, 252, 254	10.00
Chemistry 3, 7, 8, 9, 14, 15, 16, 21, 22, 31, 32, 101, 103, 123, 133, 136, 141, 142, 143, 151, 152, 153, 161, 162, 163, 181, 182, 183, 197, 214, 216, 221, 222, 223, 237, 251, 252, 265, 297	3.00
Education 175	2.00
Elementary Education 156, 159	5.00
Geology 130, 180, 210, 277, 285	5.00
Geology 118	2.00
Geology 125	5.00
Geology 160	23.00
Horticulture 12	5.00
Industrial Arts (Drawing) 43, 44, 45, 46, 47, 48, 49 50, 51, 52, 140, 141, 142 per cr. hr. per qtr.50
Industrial Arts (Mechanics) 1, 4, 5, 10, 20, 21, 23, 27, 28, 30, 31, 32, 100, 121, 123, 124, 125, 126, 127, 128, 135, per cr. hr. per qtr.	1.00
Industrial Arts (Engr.) 63, 64, 65, 66, 68, 69, 70, 71, 72, per cr. hr. per qtr.50
Industrial Arts 11, 12	10.00
Journalism 26, 121	1.50
Musical Instrument rental (Music 41, 42, 43, 141 142, 143, 144, 145, 146, Workshop or private lessons)	6.00
Organ rental, per hr. per day per qtr.	10.00
Piano rental, per hr. per day per qtr.	4.00
Practice Room (without piano) rental, per hr. per day per qtr.	2.00

FEES

Physical Education, (men) 1, 2, 3, 4, 10, 11, 12, 13, 17, 18, 20, 27, 28, 31, 33, 37, 38, 39, 41, 43, 46, 47, 51, 54, 55, 56, 70, 71, 72, 73, 7650
Physical Education 32, 42, (Skiing)	10.00
Physical Education 60, 61, 65, (Swimming)	10.00
Physical Education 30, 40, (Golf green fee)	5.00
Physical Education 30, 40, (Golf equipment rental fee)	1.00 - 10.00
Physical Education 44, (Hiking)	5.00
Physical Education 45 (Horseback Riding) (women only)	20.00
Physical Education 24, 52, 53, 170	5.00
Physical Education 66 (Canoeing)	7.50
Physical Education 172	2.00
Physics 26, 187, 188, 189	1.50
Psychology 11	1.00
Psychology 115	1.00
Psychology 171	2.50
Recreation 60, 61, 62, 63 per cr. hr. per qtr.	1.00
Recreation 26, Photography, (Students buy own film and paper) (See Physics 26, 62, 63)	1.50
Recreation 10 (Bowling)	5.00
Recreation 44, 47 (Hiking)	5.00
Recreation 45 (Horseback Riding) (men or women) ..	20.00
Recreation 67 (Flytying)	12.00
Recreation 233	3.00
Speech 475
Speech 41, 43, 44, 46, 143, 144, 145, 241	2.00
Thesis Binding (4 copies)	11.00 - 13.00
Zoology 11, 170, 174	1.00
Zoology 153	10.00
Zoology 45, 165, 166, 266	2.50
Zoology 12, 13, 171, 173	3.00
Zoology 241, 242	5.00
Zoology 191, 192, 193, 291, 292	12.00
Zoology (Service fee required of all graduate students for research courses and thesis work) ..	7.50

Deposits

Air Force R.O.T.C. (Equipment Security Deposit)	5.00
Botany 95, 140, 245, 260 (Breakage deposit)	3.00
Industrial Arts (Eng. Drawing) (Drawing)50
Physical Education (towel check deposit)75
Physical Education (padlock and locker deposit)	1.50

Private Instruction in Music (for 10 lessons)

Group I Teachers (6 or more students at same time) ..	10.00
Group II Teachers (3 students at same time)	12.00
Group III Teachers (3 students at same time)	13.50
Group IV Teachers (2 students at same time)	18.00

FEES

Group V Teachers	20.00
Group VI Teachers	25.00
Group VII Teachers	30.00
Group VIII Teachers	35.00
Group IX Teachers	40.00
Group X Teachers	45.00
Group XI Teachers	50.00
Group XII Teachers	60.00

Private Instruction in Music (for 10 lessons)

Ballou, Richard	20.00
Bos, Jacob	30.00
Buggert, Gustav	25.00
Cannon, Clawson	25.00
Cerminara, Napoleon	50.00
Dallin, Leon	35.00
de Jong, Gerrit, Jr.	40.00
Earl, Don	30.00
Evans, Lucille Sandberg	25.00
Fuerstner, Carl	45.00
Fitzroy, George W.	25.00
Gates, Crawford	25.00
Gulbrandsen, Norman	30.00
Halliday, John R.	40.00
Hanson, Wm. F.	25.00
Hunt, Norman	30.00
Keeler, J. J.	25.00
Laycock, Harold	25.00
Madsen, Florence J.	35.00
Madsen, Franklin	30.00
McAllister, J. W.	30.00
Nelson, Elmer E.	25.00
Nelson, Elmer E. (Piano Pedagogy, 6 or more in group) each	10.00
Packard, Hannah C.	30.00
Sardoni, Lawrence	30.00
Summerhays, Margaret	30.00
Wakefield, Homer	30.00
Weight, Newell	30.00

Vocal Study in Groups (for 10 lessons)

Florence Jepperson Madsen	
Two students in a group, \$20 each; three in a group, each	13.50
Franklin Madsen, Summerhays, McAllister, Packard	
Two students in a group, \$18 each; three in a group, each	12.00

Private Instruction in Speech (for 10 lessons)

Group I	12.00
Group II	25.00
Group III	30.00
Group IV	35.00

SPECIAL SERVICES

Private Instruction in Speech (for 10 lessons)

Bateman, LaVar	25.00
Clinger, Morris M.	25.00
Gledhill, Preston	25.00
Jex, Lorin	25.00
Morley, Alonzo J.	25.00
Pardoe, Kathryn B. (12 lessons)	30.00
Pardoe, T. Earl (12 lessons)	30.00
Morley, Alonzo J. (Speech Clinic)	12.00

Refunds

No refunds will be granted to students who are requested to withdraw from the University because of scholarship or any other cause.

When paying fees all students are given an official receipt by the Treasurer's Office. This receipt and the Activity card must be presented when requesting a refund.

College Students:

In the event of withdrawal by either a regular or special student, a refund will be made on the basis of a per day charge of five per cent of the total fees paid for the quarter. The days charged for will be the school days beginning with the first day of the quarter on which classes were held to the day on which the student reported his withdrawal to the Office of the Dean of Students, both days inclusive, with a minimum charge for any registration of \$5.00.

SPECIAL SERVICES

The Division of Special Services is responsible for the welfare of students in the following areas of university life: Admission and Credits, Athletics, Attendance and Scholarship, Awards, Housing and Dormitories, Health Services, Orientation, The Counseling Service, Petitions, Public Services, Scholarships, Student Organizations and Social Life, Student Publications, Student Employment, Student Loans, Women's Activities, and Veteran's Affairs.

Dean of Students

The Dean of Students is Director of the Special Services of the University. As such, he is expected to coordinate the agencies at work on special student problems. He initiates and recommends to the President needed policies and procedures in student life. It is his responsibility to administer the program recommended or approved by the President in the various areas of the Special Services.

Counselor for Women

Of special assistance to women students is a Counselor for Women. She is a member of the Committee on Special Services and Chairman of the Committee on Women's Affairs. The Counselor for Women is available throughout each day to assist women students in meeting their personal problems.

Personal Conduct

The Latter-day Saints support a high standard of morality in all phases of life. Those who accept the advantages of the University are expected, and in all fairness will want to assist the institution in maintaining those standards. Behavior contrary to the standards constitutes a breach of faith unworthy of intelligent honorable people, in their role as guests.

Specifically, students are asked to observe three aspects of morality. The Christian laws of sexual morality stand first in importance. The personal habits of the individual are expected to include non-use of liquor, tobacco, and any form of drugs; the maintenance of cleanliness in person and language, and consideration for others in all relationships. In academic and intellectual matters the student is expected to honor the regulations governing use of all University facilities, attend his classes and apply himself to his studies, and conduct himself in examinations and all other situations in conformity with the Honor System.

Loan Funds

The University has numerous loan funds which are listed in the General Catalog.

Scholarships, Assistantships, and Awards

Graduate Assistantships. A number of departments of the University employ graduate students on a part-time basis. The remuneration varies according to the nature of the work and the training and experience of the applicant.

Students who secure such appointments are necessarily limited in the number of courses for which they may register, and in the residence they accumulate.

All correspondence with regard to appointments as graduate assistants should be addressed to the Dean of the Graduate School. All applications for scholarships to Brigham Young University should be addressed directly to the Chairman of the Scholarship Committee.

A list of scholarships is contained in the General Catalog.

Student Employment

The chairman of Student Employment assists worthy students in finding employment. This includes assistance not only in placing students in positions within the University campus, but also in finding part-time employment in off-campus jobs and work for board and room. Students are not encouraged to attempt to earn their entire way through school, since this ordinarily takes too much time from their studies. (See Scholarships.)

Student Health Service

Upon entering Brigham Young University, each regular student shall pay a Health Fee.

Student Health Fees shall be used by the University for required pre-admission and re-admission physical examinations; follow-up examinations; health guidance; care of minor illnesses and injuries of ambulatory nature; and such surgery and hospitalization as shall be designated from time to time by the University Committee on Student Health.

Student Housing

Residence halls, providing healthful and congenial living quarters for both men and women students, will be available on a cooperative basis.

Allen Hall, Amanda Knight Hall, and Campus Hall for women provide every modern convenience. All accommodations are furnished, including furniture, bedding and linen. Applications to live in any of the school residence halls should be filed with the Chairman of Student Housing before the opening of school, and should be accompanied by a deposit of \$10. If the student decides later not to enter the University, the deposit fee will be returned, provided notification has been given ten days before the opening of the term.

Wymount Village, completed during the school year 1946-47, provides housing for 300 single and 200 married students.

Board and room in private homes costs from \$11.00 to \$18.00 per week. By renting rooms and boarding themselves students are able to reduce considerably the cost of room and board.

If students desiring assistance will call at the office of Student Housing when they arrive in Provo, they will be furnished lists of available living quarters. When students desire to change living quarters, they are expected to call on and notify the Chairman of Student Housing.

The University insists that men and women be housed separately. The boarding houses are inspected to see that accommodations are satisfactory. The University maintains two cafeterias where students may secure meals at cost.

Religious Opportunities

Brigham Young University students have excellent opportunities for participation in religious activities. Among the organizations which make this possible are the following:

University Assemblies. Instructive programs are offered at regular assembly periods each week during the year.

Church Services. Two branches of the Church, affiliated with the East Provo Stake, are found on the campus. Wymount Branch is made up of those living in Wymount Village. Campus Branch is made up of students living in dormitories and nearby homes. Each of these branches conducts a full program of religious activities under the leadership of officers chosen from among the students.

Other Programs. The University, through its various departments and special activities, presents numerous inspirational and instructive programs made up of music, drama, literature, and special lectures. These programs are open to all students and usually to all others who enjoy attending.

DEPARTMENTS OF INSTRUCTION

The following courses carry only graduate credit. Advanced undergraduates may register for some of them as part of their baccalaureate programs by securing permission of the instructor **prior** to registration, and by doing all the work required in the course. The Graduate Faculty holds to the policy that graduate work is not made up of doing more of the work which constitutes an undergraduate course, but should involve more depth, a more mature integration of all ideas included in a subject, and more initiative on the part of the student both as to the amount and nature of his study and his analysis and evaluation of the content of a course, than are generally expected of undergraduate students.

Courses enclosed in brackets () are not offered in the current year. Prerequisite courses listed by number only without the name of a department refer to the department in whose list they appear. All courses with variable credit assume the exact amount to be received is to be arranged with the instructor at time of registration. All courses which permit selection of topics to be studied assume this will be arranged with the instructor at the time of registration.

Many departments offer opportunities to do independent reading, or to organize special groups for subjects to be arranged. In each case it is assumed such registrations will be used **only when regular courses do not supply what the student needs**, and for the purpose of meeting those needs. Organization of special groups is possible only when enough students want it to justify the time of an instructor.

Accounting

Professor Emeritus Hoyt; Associate Professors Robert J. Smith (chairman), Richard L. Smith; Assistant Professor Lowe.

Field: Accounting

Prospective majors in this field must have as a minimum background Accounting 1, 2, 149, 150, 151, and 152 or the equivalent, and should preferably have a full undergraduate major in the field. In special cases, a student may be accepted for major study in the field when he has completed only Accounting 1 and 2, but he would be required to complete 150, 151, and 152 before taking any graduate work, and these courses would not be applied on his master's program. Accounting 149 may be taken at the same time other work is being taken at the graduate level.

COURSES

- | | |
|---|-----------------|
| 280. Advanced Accounting. | (5) A |
| Prerequisite: 152. | Smith, Lowe |
| 281, 282. Industrial Internal Auditing. | (3, 3) A W |
| Prerequisites: 152 or 194 or equivalent. | Hoyt |
| 283. Internal Auditing for Special Industries. | (3) S |
| Prerequisites: Same as for 281. | Hoyt |
| 288. Advanced Tax Problems. | (3) S |
| Prerequisite: 188. | Lowe |
| 293. Reading and Conference. | (1-5) A W S |
| Subject to be arranged with instructor. | Staff |
| 294. (Standard Costs.) | (3) A |
| Evening sessions. | Staff |
| 296, 297, 298. C. P. A. Coaching. | (4, 4, 4) A W S |
| Prerequisites: 149, 152, 194, and the following which should be taken either before or with C. P. A. Coaching: 187, 188, 280. | Smith |
| 300. Thesis for Master's Degree. | Staff |

Agricultural Economics

Professor Pond (chairman).

Field: Agricultural Economics

Prospective majors in this field must have as a minimum background Agricultural Economics 20, 25, and 107, and Economics 1, 2, 106, and 194. When conditions make it advisable, a student will be permitted to complete Agricultural Economics 107 and Economics 194 after admission to the Graduate School, as additional background and not to count on his master's program. A minor may be carried by one who has completed Agricultural Economics 20 and 25, and Economics 1 and 2, and who will complete Economics 106 after admission.

COURSES

- | | |
|--|-------|
| 292. Governmental Agricultural Policy | (3) S |
| | Pond |
| 296. Individual Readings. | (Arr) |
| | Pond |
| 297. Individual Research. | (Arr) |
| | Pond |
| 300. Thesis. | Staff |

The following courses are acceptable as applying to this field: Economics 278, 295, 299, and Marketing 285.

Agronomy

Professors Beck, Martin; Associate Professor
Farnsworth (chairman).

Field: Agronomy

Students preparing for graduate work in Agronomy are urged to obtain a thorough knowledge of introductory physics, zoology, chemistry, mathematics, botany, bacteriology and geology. Opportunity will be afforded for further study in some of these subjects after entering the Graduate School, but a student deficient in these foundation courses cannot expect to receive an advanced degree in the minimum time required for residence.

The Agronomy Department has established the following minimum requirements for permission to study toward a Master's Degree.

(1) An undergraduate minor in Agronomy (a major is preferred).

(2) A satisfactory completion of the following undergraduate courses: Chemistry 14, 15, 16, 21, 22, (31, 32 preferred); Mathematics 11, 12, 13; Geology 1, 12; Bacteriology 21, 22. Physics 41, 42, 43; Zoology 11; Botany 1, 3, 140, 150. If a student is emphasizing crops, the botany courses 140 and 150 may be taken as a graduate student, and need not necessarily be completed as undergraduate credit, as they must if one is emphasizing soils. If, however, these botany courses have been taken as an undergraduate, more time will be afforded for graduate courses.

COURSES

- | | |
|---|------------------------|
| 201. (Advanced Plant Breeding.) | (3) A
Staff |
| 203. Advanced Soil Physics. | (4) W
Farnsworth |
| 205. Physical Chemistry of Soil Formation. | (4) S
Farnsworth |
| 223. Advanced Range Management. | (1-4) A W S
Stewart |
| 292. Soil Microbiology.
Prerequisites: 105; Bacteriology 21. | (3) S
Martin |
| 293. Soil Microbiology Laboratory.
Prerequisites: 292;
Chemistry 31, 32, or equivalent. Accompanies
microbiology lectures. | (2) S
Farnsworth |

294. Seminar. (1) A W S
Martin, Farnsworth
295. Special Problems. Arr. A W S
Staff
297. Research. Arr. A W S
Staff
299. Agricultural Literature. Arr. A W S
Staff
300. Thesis for Master's Degree. Staff

See also Botany 268, and Chemistry 264, 265, which may be counted in this field.

Animal Husbandry

Associate Professor Richards (chairman);
Assistant Professor Shumway

Field: Animal Husbandry

Full graduate standing as a major in this field requires a background equivalent to Animal Husbandry 5, 7, 10, 11, 15, 32, 174, 175, and 176. Those who have their bachelor's degree, and who have completed 7, 10, 11, 15, and either 5 or 32, may be admitted provisionally, while they complete the rest of the background. Permission to minor in the field requires a minimum of 7, 10, 11, and 15 or the equivalent.

COURSES

201. Animal Breeding Research. (1-5) A W S
Richards
202. Special Problems in Animal Breeding. (1-5) A W S
Richards
207. Animal Nutrition. (3) S
Prerequisites: 7, 107. Shumway
210. Problems in Animal Nutrition Research. (1-5) A W S
Shumway
211. Special Problems in Animal Nutrition. (1-5) A W S
Shumway
215. Animal Breeding Plans. (3) A
Richards
220. Problems in Dairy Research. (1-5) A W S
Richards, Shumway

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|--|----------------------------------|
| 221. Special Problems in Dairying | (1-5) A W S
Richards, Shumway |
| 230. Animal Disease Research. | (1-5) A W S
Nicholes |
| 231. Special Problems in Animal Disease. | (1-5) A W S
Nicholes |
| 271. Secretion of Milk. | (3) S
Shumway |
| 260. Experimental Methods in Livestock Work. | (3) W
Richards |
| 275. Graduate Seminar. | (1) S
Richards |
| 300. Thesis. | Staff |

Archaeology

Associate Professor Jakeman (chairman);
Mr. Christensen.

Field: Archaeology

Admission as a graduate major in archaeology requires evidence of previous completion of an under-graduate major in this subject.

COURSES

- | | |
|--|---------------------------|
| 201. History and Theory of Archaeology. | (2) W
Jakeman |
| 221. Advanced Readings in Old-World Archaeology. | (1-6)
A W S
Jakeman |
| a. Near Eastern archaeology. (2) | |
| b. Classical archaeology. (1) | |
| c. Prehistoric European archaeology. (1) | |
| d. Biblical archaeology. (2) | |
| 261. Advanced Readings in American Archaeology. | (1-6)
A W S
Jakeman |
| a. Middle American archaeology. (2) | |
| b. Andean archaeology. (2) | |
| c. Southwestern archaeology. (1) | |
| d. Mound-Area archaeology. (1) | |

- 271, 272. **Introduction to Hieroglyphic Studies: Ancient American.** (2, 2) A S
Jakeman
285. **Advanced Comparative Archaeology.** (2) S
Jakeman
294. **Library and Museum Research.** (2) A W S
Staff
297. **Field Research.** (3, 5, or 8) A W S
Staff
(Consult chairman of department regarding credit for field work. For work in the Near East, see statement under Department of Scripture.)
300. **Thesis for Master's Degree.** Staff
See also Semitic Languages 251, 252, 253, 255, 256, 257, which may be counted in this field.

Art

Professors Larsen (chairman), Jenson; Assistant Professors Andrus, Stewart, Turner; Mr. Taylor.

Fields:

Design
Painting and Sculpture

Students who expect to major in art should include in their preparation courses 10, 13, 14, 21, 22, 27, 28, 33, 34, 39, 40, 50, 52, 56, 104, 107, 108, 110, 121, 174, or the equivalent. Applicants for admission who are deficient in a small portion of this background may be admitted with the provision that they make up the background before starting on graduate work. Requirements for a minor in art are ordinarily the same as those for a prospective major.

COURSES

- 202, 203. **Composition.** (2, 2) W S
Larsen
211. **Contemporary Mural Design.** (2-4) W
Andrus
215. **Period Furnishing.** (3) A
Taylor
216. **Decorative Material for Interior Design** (3) W
Taylor

217. Practical Problems in Interior Design.	(3) S Taylor
221, 222, 223. Advanced Drawing and Painting.	(2-4) A W S Larsen
227, 228, 229. Pictorial Composition.	(2-5) A W S Larsen
233, 234, 235. Advanced Water Color Painting.	(2-4) A W S Turner
239, 240, 241. Lettering and Layout for Reproduction.	(2, 2, 2) A W S Stewart
242. Various Media in Illustration.	(2) W Stewart
250. Experimental Relief Printing.	(2-4) A Andrus
251. Color Lithography and Etching.	(2-4) W Andrus
252. Seriography.	(2-4) S Andrus
256, 257, 258. Advanced Sculpture.	(2, 2, 2) A W S Turner
271. Survey of Recent Studies in Art Education.	(3) A Staff
274, 275, 276. Portrait and Figure Design and Painting.	(2-4) A W S Andrus
280, 281, 282. Design and Painting. Mural Types.	(1-5) A W S Andrus
283, 284, 285. Studio Art.	(2-5) A W S Staff
286, 287, 288. Studio Art.	(1-5) A W S Staff
290, 291, 292. Color.	(2, 2, 2) A W S Andrus
299. Seminar.	Arr. A W S Staff
300. Thesis.	Staff

Bacteriology

Professors J. V. Beck (chairman), Martin; Associate
Professor Farnsworth
Field: Bacteriology

Adequate preparation for graduate work presupposes satisfactory training in chemistry, mathematics, physics, and biological sciences. If a student is deficient in his foundation courses, the opportunity will be given after entering the Graduate School to correct these deficiencies. However, such a student cannot expect to receive the advanced degree in the minimum time required for residence.

Permission to work for the Master's Degree in Bacteriology is based on satisfying the following minimum requirements:

1. An undergraduate minor in Bacteriology (preferably a major).
2. Satisfactory completion of the following undergraduate courses:
 Chemistry 14, 15, 16, 21, 22, 141, 142, 143, 181, 182, 183.
 Mathematics 11, 12.
 Physics 31, 32, 33, or 41, 42, 43.
 Zoology 11.
 Botany 1.
 or the equivalent of these courses.

Courses recommended but not required include Chemistry 161, 162, 163; Botany 140; Mathematics 13, 101, 102, 103; and Zoology 165.

COURSES

- | | |
|---|-----------------|
| 200, 201, 202. Advanced Microbiology. | (5, 5, 5) A W S |
| Prerequisite: Graduate standing in bacteriology or chemistry. | Beck |
| 294. Graduate Seminar. | (1) A W S |
| | Beck, Martin |
| 299. Research to furnish data for thesis. | Arr. A W S |
| | Staff |
| 300. Thesis. | Staff |

See Agronomy 292, 293; Chemistry 237, 251, 262, 282, and Botany 245, which may be applied in this field.

Botany

Professor Harrison (chairman); Mr. Christensen,
 Mr. Murphy.
 Field: Botany

Full graduate standing is granted students who have completed Botany 1, 3, 91, 101, 102, 103, 106, 140, 150, and Zoology 18, or the equivalent. Equivalency may be determined by ex-

amination in which the applicant demonstrates an adequate mastery of these areas. Provisional standing is granted a student who has completed courses 1, 3, 140, 150, and any two of the others listed above, but such student will be required to prepare himself in the other areas in addition to his graduate studies. A minor in botany may be elected by one who has already completed Botany 1, 2, and 3, and who will complete Botany 140 as part of his background.

COURSES

- | | |
|---|----------------------|
| 231. Advanced Taxonomy. | (2-5) S |
| Prerequisites: 3, 91 and Zoology 29. | Harrison |
| 236. Agrostology: Taxonomy and Ecology of Grasses. | (3) A |
| Prerequisites: 3, 91 and Zoology 29 recommended. | Harrison |
| 245. Plant Nutrition and Growth. | (3) A |
| Prerequisites: 140; Chemistry 14, 15, 16. | Harrison |
| Chemistry 141, 142, 143 recommended. | |
| 252. Field Ecology. | (2) S |
| Prerequisite: Consent of instructor. | Harrison |
| 254. Methods in Field Ecology. | (3-5) S |
| Prerequisites: 150, 155. | Harrison |
| 259. Range and Forest Ecology. | (2-4) A W S |
| Prerequisite: Consent of instructor. | Harrison, Stewart |
| 260. Experimental Ecology. | (3) S |
| Prerequisite: 140, 150. | Harrison |
| 268. Conservation of Natural Resources. | (2-5) A W S |
| Prerequisite: Consent of instructor. | Christensen, Stewart |
| 285, 286. Seminar. | (1, 1) A W |
| | Staff |
| 290, 291, 292. Special Problems. | (2-5) A W S |
| | Staff |
| 300. Thesis for Master's Degree. | Staff |

Business Administration

Professor R. L. Smith (chairman).

No graduate major is available in this field for 1952-53.

- | | |
|--|-------------|
| 250. Administrative Policy. | (5) S |
| Prerequisites: 150, 151, and contemporaneously with 152. | R. L. Smith |
| 300. Thesis. | |

Chemistry

Professors Broadbent, Nicholes (chairman); Associate Professors Bryner, Goates, Peterson, Swensen; Assistant Professors Blackham, Wing.

Fields:

1. Chemistry, when major or minor are in another department.
2. Inorganic, physical, and analytical.
3. Organic, biological, and analytical.

Conditional standing will be granted a student who has completed Chemistry 14, 15, 16; 31, 32, or 21, 22, provided he will complete the additional work required by the department for an undergraduate major of 45 hours, as the minimum background for a graduate program. Further details on recommended background may be obtained from consultation with the chairman of the department. A student who wishes to minor in chemistry will be required to have Chemistry 14, 15, 16, 21, 22, or the equivalent for conditional standing but must complete 141, 152, and 143 after admission in order to have full standing. All requirements for the master's degree are in addition to these entrance requirements.

Two alternative programs are available to the student. (1) The completion of 30 hours of credit in graduate courses in chemistry (the Department of Chemistry is here considered one field) and a minimum of 15 hours in another field, such as mathematics, physics, geology, zoology, botany, bacteriology, agronomy, and animal husbandry. (2) The completion of minimum of 23 hours of credit in graduate courses in one field of chemistry and a minimum of 15 hours in the other field of chemistry.

COURSES IN INORGANIC AND PHYSICAL CHEMISTRY

- | | |
|--|-----------------------------|
| 211, 212, 213. Advanced Inorganic Chemistry. | (3, 3, 3) A W S
Peterson |
| 214. Inorganic Preparations. | (2) A W S
Peterson |
| 261, 262. Chemical Thermodynamics. | (3, 3) A W
Goates |
| 263. Chemical Kinetics. | (3) S
Goates |

See also Analytical and Other Courses in Chemistry, which may be applied to this field.

COURSES IN ORGANIC AND BIOLOGICAL CHEMISTRY

- | | |
|--|-----------|
| 251. Qualitative Organic Analysis. | (4) A |
| Prerequisites: 151, 152, 153. | Broadbent |
| 252. Organic Synthesis. | (4) W |
| Prerequisites: 151, 152, 153. | Broadbent |
| 253. Physical Organic Chemistry. | (3) S |
| Prerequisites: 161, 162, 163, and 251. | Broadbent |
| 281. Biochemistry. | (3) W |
| Prerequisites: 183, 264. | Swensen |
| 282. Biochemistry. | (3) S |
| Prerequisites: 183, 264. | Swensen |

See also Analytical and Other Courses in Chemistry, which may be applied to this field.

ANALYTICAL AND OTHER COURSES IN CHEMISTRY

- | | |
|--------------------------------------|-----------------|
| 204. History of Chemistry. | (3) S |
| | Nicholes |
| 216. Advanced Qualitative Analysis. | (3) A |
| | Nicholes |
| 221. Advanced Quantitative Analysis. | (3-5) W S |
| | Wing |
| 222, 223. Micro-chemical Analysis. | (2, 2, 2) A W S |
| | Wing |
| 237. Instrumental Analysis. | (3-5) S |
| | Goates |
| 264. Colloidal Chemistry | (3) A |
| | Goates |
| 265. Surface Chemistry Laboratory. | (2) A |
| | Goates |
| 297. Research. Special Problems. | Arr. A W S |
| | Staff |
| 300. Thesis for Master's Degree. | Staff |

Church History and Philosophy

Professors Nibley, Sudweeks; Associate Professor Berrett;
Assistant Professors Belnap (chairman), Yarn.

Field: Church History and Philosophy

Students who expect to major in this field should have

had suitable undergraduate preparation. Those whose background is found deficient may be required to pass a qualifying examination or take certain preparatory courses for which no graduate credit will be allowed.

COURSES

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|--|-----------------------|
| 201. Survey of Religious Education. | (2) A
Belnap |
| 202. Methods and Techniques for Religious Educators. | (2) W
Belnap |
| 203. Religion and Education in the American Culture. | (2) S
Belnap |
| 221. Special Problems in L.D.S. Church History. | (2) A
Berrett |
| 222. Special Problems in L.D.S. Church History. | (2) W
Berrett |
| 223. Special Problems in L.D.S. Church History. | (2) S
Berrett |
| 241. Historical Development of L.D.S. Doctrines and Practices. | (2) A
Berrett |
| 242. Historical Development of L.D.S. Doctrines and Practices. | (2) W
Berrett |
| 243. Historical Development of L.D.S. Doctrines and Practices. | (2) S
Berrett |
| 261. World Religions: Principles of Comparative Religion. | (2) A
Nibley |
| 262. World Religions: Cult, Myth and Priesthood in the Near East. | (2) W
Nibley |
| 263. World Religions: Ritual Patterns. | (2) S
Nibley |
| 271. Research Problems in Genealogy.
Prerequisite: Ch. Adm. 118. | (2) A W S
Sudweeks |
| 281. History of Ancient Philosophy. | (3) A
Yarn |
| 282. History of Medieval and Modern Philosophy. | (3) W
Yarn |
| 283. Types of Religious Philosophy. | (2) S
Yarn |
| 284. Recent American Philosophy. | (2) S
Yarn |
| 300. Thesis for Master's Degree. | Staff |

Economics

Professors Miller, Pond (chairman).

Field: Economics

Full graduate standing is granted students who have completed a minimum of 21 hours of economics, which is represented by courses 1, 2, 74, 106, and 194, or the equivalent. Provisional standing may be given a student who has completed courses 1, 2, and 74, with the understanding he will complete the other courses in addition to his graduate requirements. A minor in the field may be taken by one who has completed courses 1 and 2, provided he will also complete 106 as part of his background.

COURSES

- | | |
|--|----------------------------|
| 262. Collective Bargaining and Industrial Relations
Prerequisite: 161. | (3) W
Miller |
| 263. Labor Law.
Prerequisite: 161. | (3) S
Miller |
| 278. International Trade and Finance. | (3) A
Miller |
| 295. Advanced Economic Theory.
Prerequisite: 194. | (5) W
Pond |
| 296, 297, 298. Research. | Arr. A W S
Miller, Pond |
| 299. History of Economic Thought. | (5) S
Pond |
| 300. Thesis for Master's Degree. | Staff |

The following courses will be recognized as applying on a major in Economics: Marketing 285, Finance and Banking 201, 254, and 268, Agr. Econ. 292, and History 274.

Education

Professors H. G. Clark, A. J. Clarke, C. J. Hart, Holbrook, Jensen, Law (chairman), Lloyd, Morrill, Romney; Associate Professors Barnett, M. H. Clark; Assistant Professors Bauer, Stone.

No graduate field is offered in this department. See other departments of education for fields offered in them. Courses offered in this department may be used in other Education departments with the approval of the student's chairman.

COURSES

218. **Educational Research and Thesis Writing.** (3) A W S
Prerequisite: Consent of Instructor Law and Staff
- 230 - 235. **Independent Readings in Education.** (1-2) A W S
and 33 hours Education.
Prerequisite: 33 hours Education. Staff
- 250, 251. **Seminar in Education.** Arr. A W S
Prerequisite: 33 hours of Education Law, Staff
252. **Statistical Methods.** (3) A S
Prerequisite: 33 hours of Law, Clarke, Barnett
Education and Psychology.
- 257 - 259. **Research in Education.** (2) A W S
Prerequisite: 33 hours Education, and Law, Staff
consent of instructor.
270. **Advanced Statistics in Education.** (3) S
Prerequisite: 33 hours Education, Law, Stone, Barnett
including Education 252.
273. **Educational Tests and Measurements.** (3) W
Prerequisite: 33 hours Education. Barnett, Staff
276. **Audio-Visual Materials and Procedures.** (3) W
Prerequisite: 175. Tyndall
285. **Problems of the Teaching Profession.** (3) A S
Prerequisite: 33 hours Education. Law, H. G. Clark,
Morrill, Staff
297. **Current Problems and Issues in Education.** (3) A S
Prerequisite: 33 hours of Education, Law, Staff
and some field experience.
299. **Teaching in the College and University.** (3) A W S
H. G. Clark

Educational Administration

Professors H. G. Clark, E. M. Jensen, Law (chairman),
Morrill; Associate Professor Barnett.

Field: Educational Administration

Graduate majors in Educational Administration should include in their programs Education 252, 218, and 273; a course in History of Education; Educational Administration 211, 216, 293, 295, 296, or 298, and 300 or 301. Additional work should be selected under advisement from the chairman of the student's special committee. In meeting the above men-

tioned requirements at least nine of the twelve credit hours represented by courses 218, 211, 293, and 295 must be completed in residence. Other work may be taken off campus. The candidate will be expected to present evidence of the completion of all requirements for either an elementary or secondary teaching certificate together with nine quarter hours of credit pertaining specifically to the certificate for which requirements are not completed. (This should include elementary or secondary curriculum.) Evidence of three years of successful teaching experience should also be provided.

COURSES

- 201 - 210. Independent Readings in Organization, Administration and Supervision.** (1-3) A W S
Prerequisite: 33 hours Education and permission of the instructor. Staff
- 211. Public School Finance.** (3) A W
Prerequisite: 33 hours Education. Law, Morrill, Barnett
- 213. (Personnel Problems of the Teaching Staff).** (3) W
Prerequisite: 33 hours Education. Morrill, Staff
- 216. Public School Building Programs.** (2 or 3) S
Prerequisite: 33 hours Education. Morrill, Barnett
- 220. Adult Education Programs.** (2) S
H. G. Clark
- 250, 251. Seminar in Education.** Arr. A W S
Prerequisite: 33 hours Education. Law and Staff
- 255. School Law.** (3) W
Prerequisite: 33 hours Education. Law, Morrill, Barnett
- 257 - 259. Research in Educational Administration.** (2) A W S
Prerequisite: 33 hours Education, and Law and Staff
consent of instructor.
- 265. (College and University Organization and Administration).** (3) W
Staff
- 266. Work Improvement Efficiency in the Public Schools.** (2) W
H. G. Clark
- 293. The Organization and Administration of Public Schools.** (3) A S
Prerequisite: 33 hours Education. Morrill, Barnett
- 295. Supervision of Education.** (3) S
Prerequisite: 33 hours Education. Law, Morrill
- 296. The Work of the Secondary School Principal.** (3) W
Clarke, Morrill

298. **The Elementary School Principalship.** (3) S
Morrill, Barnett
300. **The Master's Thesis in Educational Administration.** Staff
301. **Field Project.** Staff
- See also Education 218, 252, 270, 273, 285, and 297, which may be applied to this field.

Elementary Education

Professor Morrill (acting chairman); Associate Professor Bowen; Assistant Professor Emeritus Hammond; Assistant Professors Alder, Brown, Candland, Fisher, Howe, and Maeser.

Field: Elementary Education

Students majoring in elementary education must have previously taken sufficient work in the field to have a sound philosophy and background for the advanced study. This should have included Elementary Education 181, 182, and 160, and Education 163, or the equivalent. Certificated teachers with one or more years of teaching experience are in most instances eligible.

A major in this field may be taken by one who has the prerequisites for the graduate courses involved in his major program.

In most instances students should have taken a foundation course in the same area as the graduate course, e.g., students registering for 212 should have taken 160. Graduate courses in the area of the curriculum should always be preceded by 181 and 182.

COURSES

202. **Curriculum Building in the Elementary School.** (3) W
Candland
- 203 - 205. **Individual Studies in Elementary Education.** (1-4) A W S
Brown, Maeser, Candland
Requires a minimum of twenty-five clock hours for each quarter-hour of college credit.
- 206 - 208. **Seminar in Elementary Education.** (2-6) A S
Brown, Candland
209. **Analysis of Inservice Problems.** (3) A W S
Staff

210. Reading in the Elementary School. (3) W
Staff
211. Language Arts in the Elementary School. (3) W
Hammond, Peterson, Maeser
212. Research in Child Growth and Development. (3) A
Hammond, Maeser
213. Social Studies in the Elementary School. (5) A
Candland, Brown
Howe, Maeser
214. (Arithmetic in the Elementary School.) (3) W
Brown, Maeser
215. Science in the Elementary School. (3) S
Brown
216. (Creative Arts in the Elementary School.) (2) A
Hammond, Fisher, Andrus
217. (Arts and Crafts for Elementary Teachers.) (2) S
Andrus
222. (Advanced Study in Early Childhood Education.) (3) A
Hammond, Peterson, Candland
300. Thesis for Master's Degree. Staff
301. Field Project. Staff
- See also Ed. Admin. 298, which may be counted in this field.

English

Professors Christensen (chairman), Young;
Associate Professors Cheney, Jacobs, Spears;
Assistant Professors Britsch, Clark, Larson, Lee,
Rice, Taylor; Miss Oaks, Mr. Thomas.

Field: English

A candidate for the degree of Master of Arts in English must have met the requirements for the degree of Bachelor of Arts or their equivalent. He must offer at least forty-five hours of credit beyond the requirements for the baccalaureate degree, of which at least twenty-three must be in the field of English, and of which at least thirteen must be in graduate courses in English as distinguished from courses listed as upper division. He must offer, either in his baccalaureate or in his graduate program, credit in Old English, Chaucer, History of English Language, Shakespeare, and American Literature. He must write a satisfactory thesis, and pass a comprehensive oral examination in the fields of English and American literature and language.

COURSES

- | | |
|--|----------------------|
| 201. Problems in Thesis Writing. | (2) W
Rice |
| 227. Victorian Social Critics. | (4) A
Staff |
| 247. Seminar in American Literature. | (4) A
Jacobs |
| 260. English Drama to 1642. | (4) W
Young |
| 264. (Restoration and Eighteenth Century Drama) | (4) W
Rice |
| 273. The Age of Enlightenment in England. | (4) W
Rice |
| 274. (Seminar in Romanticism.) | (4) S
B. Clark |
| 293. Seminar in the Victorian Novel. | (4) S
B. Clark |
| 295. Old English. | (4) A
Young |
| 296. (Middle English.) | (4) S
Christensen |
| 298. Problems in Literary Criticism.
Prerequisite: 198 or permission of instructor. | (4) S
Christensen |
| 299. Beowulf.
Prerequisite: 295. | (3) S
Rice |
| 300. Thesis for Master's Degree. | Staff |

Finance and Banking

Professors H. R. Clark (chairman), Edwards.

Field: Finance and Banking

Full graduate standing is granted to students who have completed Accounting 1, 2, 106, and 150; Economics 1, and 2; and Finance and Banking 151, 153, and 157; or the equivalent of these courses. In some cases students who have completed part of this background will be given provisional graduate standing, if they agree to complete the rest of the program in addition to their graduate studies. Permission to minor in this field is sometimes granted to those with less than the background listed above, after consultation with the chairman.

COURSES

- | | |
|--|----------------------|
| 201. Research in Business Finance. | (2-5) W S
Clark |
| 254. Investments.
Prerequisite: 151; Accounting 35, 151, 174. | (5) S
Edwards |
| 255. Research in Investments. | (2) A W S
Edwards |
| 268. Economics of Finance. | (5) W
Edwards |
| 300. Thesis. | Staff |

The following courses will be recognized as applying on a major in Finance and Banking: Education Administration 211, Economics 278.

Geology and Geography

Professor Hansen (chairman); Associate Professors Bissell, Bullock, Proctor; Assistant Professor Tuttle; Mr. Hyatt.

Fields: Economic Geology and Mineralogy
Stratigraphy and Field Geology
Geography.

The following courses are prerequisites for all students who work toward a master's degree in Geology: Geology 1, 12, 106, 115, 117, 118, 119, 130, 132, 160.

Some undergraduate upper division work selected from the following list may be applied toward a master's degree: Geology 171, 173, 180. (See regulations governing this matter in the fore part of this catalog.)

COURSES IN ECONOMIC GEOLOGY AND MINEROLOGY

- | | |
|---|------------------|
| 250. Mineral Optics.
Prerequisite: 119. | (5) A
Bullock |
| 251. Petrography.
Prerequisite 250. | (2) W
Bullock |
| 252. Igneous Petrology.
Prerequisite: 130. | (3) W
Bullock |
| 253. Metamorphic Geology.
Prerequisite: 130. | (5) S
Bullock |
| 277. Petroleum Geology.
Prerequisite: 130. | (5) S
Hansen |

281. **Metalliferous Deposits.** (5) S
Prerequisite: 180. Bullock
283. **Non-Metalliferous Deposits.** (5) W
Prerequisite: 180. Hyatt
284. **Geology of Ceramic Raw Materials.** (3) S
Prerequisite: 180. Hyatt
285. **Geology of Ground Water.** (5) A
Prerequisite: 130. Hansen
300. **Thesis for Master's Degree.** Staff

See also 201, 202, 203, 230, 231, 273, 291, 292, 293, 296, which may be applied to this field.

COURSES IN STRATIGRAPHY AND FIELD GEOLOGY

230. **Advanced Structural Geology.** (1-5) A W S
Prerequisite: 130. Staff
231. **Geology of the U. S.** (5) W
Prerequisite: 130. Hansen
270. **Vertebrate Paleontology.** (5)
Prerequisite: 12. Hansen
271. **Index Fossils.** (1-3) W
Prerequisite: 171. Bissell
273. **Sedimentology.** (3) A
Prerequisite: 172. Bissell
274. **Sedimentary Petrology.** (3) W
Prerequisite: 172. Bissell
275. **Sedimentary Petrography.** (2) W
Prerequisite: 172. Bissell
300. **Thesis for Master's Degree.** Staff

See also 201, 202, 203, 210, 260, 261, 262, 277, 285, 291, 292, 293, 296, which may be applied to this field.

OTHER COURSES IN GEOLOGY

- 201, 202, 203. **Research.** (1-3) A W S
Special problems in the field of geology Staff
designed for students prepared to do original work.
210. **Geology of Utah.** (5) A
Hansen
- 260, 261, 262. **Advanced Field Geology.** (1-5) A W S
Prerequisite: 132. Staff

- 291, 292, 293. Seminar. (1, 1, 1) A W S
(Required of all graduates). Staff
296. Readings in Geology. (1) A W S
Total of six registrations permitted. Staff

COURSES IN GEOGRAPHY

- 205, 206, 207. Research. Arr. A W S
Hansen, Tuttle
250. (Geography of North America.) (5) A
Prerequisite: Consent of Instructor. Tuttle
255. (Geography of Latin America.) (5) S
Prerequisite: Consent of Instructor. Tuttle
260. (Geography of Europe.) (5) W
Prerequisite: Consent of Instructor. Tuttle
265. (Geography of Asia.) (5) W
Prerequisite: Consent of Instructor. Tuttle
268. Readings in Geography. (1) A W S
A total of six registrations Hansen, Tuttle
permitted. (For Geography majors and minors).
300. Thesis Staff

History

Professors Swensen (chairman), Nibley;
Associate Professors Madsen, Poll.

Field: History

Full graduate standing is granted to those who have completed the equivalent of an undergraduate major as background.

History 290, 293, or the equivalent and two additional seminar courses, 294-297, are required of all those who major in history.

COURSES

206. Greek Philosophers. (3) S
Swensen
212. History of Medieval Thought. (3) S
Swensen
221. (History of Europe 1500-1815.) (3) W
Prerequisite: 12 or the equivalent. Poll

222. (History of Europe, 1815-1914.) (3) S
Poll
225. (Economic History of Europe, 1500-1950.) (3) A
Prerequisite: 12 or the equivalent. Poll
245. (Constitutional History of England.) (3) W
Prerequisites: 20, 21, or the equivalent. Madsen
250. Latin American Seminar. (2) S
Tyler
256. History of the American Southwest. (3) A
Tyler
263. Historical Geography of the United States. (3) W
Prerequisites: 20, 21, or the equivalent. Madsen
270. Colonial American History. (3) A
Prerequisite: 20 or the equivalent. Jensen
274. Economic History of the United States, 1850-1939. (3) S
Prerequisite: 74 or the equivalent. Poll
275. History of the United States, 1783-1815. (3) W
Prerequisite: 20, 21, or equivalent. Poll
276. History of the United States, 1815-1850. (3) S
Prerequisite: 20, 21, or equivalent Madsen
277. (History of the United States, 1850-1877.) (3) W
Prerequisite: 20, 21, or equivalent. Poll
278. (History of the United States, 1877-1919.) (3) S
Prerequisites: 20, 21, or the equivalent. Madsen
286. (Constitutional History of the United States.) (3) W
Prerequisites: 20, 21, or the equivalent. Staff
Pre-law students by permission of instructor.
289. European Historians. (3) W
Tyler
290. (Historiography and Historical Method.) (3)
Swensen
291. (Ancient Historians.) (3) W
Swensen
292. (American Historians.) (3) S
Madsen
293. (Seminar in Methods of Historical Research (2)
and Writing.) Madsen and Poll
294. (Seminar in Ancient History.) (2) W
Swensen
295. Seminar in Medieval History (2) S
Swensen

- | | |
|-----------------------------------|---------------------|
| 296. Seminar in American History. | (2) W S
Madsen |
| 297. Seminar in Utah History. | (2) W
Poll |
| 298. Special Readings in History. | Arr. A W S
Staff |
| 299. Special Research in History. | Arr. A W S
Staff |
| 300. Thesis for Master's Degree. | Staff |

See also Political Science 286, which may be counted toward History.

Journalism

Associate Professor Smith (chairman).

Field: Journalism

Prospective majors in this field are advised to consult with the chairman of the department concerning required background for graduate study.

COURSES

- | | |
|---|----------------------|
| 206. (Practices and Problems of Mass Communications.) | (3) W
Smith |
| 240. Research Methods in Mass Communications. | (3) W
Smith |
| 291, 292, 293. Special Studies in Journalism. | (1-2) A W S
Smith |
| 294. Readings in Mass Communication. | Arr. A W S
Staff |
| 300. Thesis for Master's Degree. | Staff |

See also Speech 250, which may be applied to this field.

Marketing

Professor Boyle; Associate Professor Taylor (chairman).

Field: Marketing

COURSES

- | | |
|--|----------------------|
| 204. Research in Marketing Problems.
Prerequisite: 107. | Arr. A W S
Taylor |
|--|----------------------|

- | | |
|---|------------|
| 205. Special Problems in Retailing. | Arr. A W S |
| Prerequisite: 107. | Boyle |
| 206. Special Problems in Marketing and Marketing Analysis. | Arr. A W S |
| Prerequisite: A course in statistics. | Staff |
| 261. Retail Store Control. | (5) W |
| Prerequisite: Accounting 150. | Taylor |
| 285. Seminar in Marketing and Merchandising. | (3) S |
| Prerequisite: 107 and a course in statistics. | Taylor |
| 300. Thesis for Master's Degree. | Staff |

The following courses will be recognized as applying on a major in Marketing: Economics 278, 295, 299.

Mathematics

Professors Hales, Marshall (chairman); Associate Professor Eastmond; Assistant Professor Gardner.

Field: Mathematics.

A student should not seek the master's degree in mathematics until he has had training represented by credit in Mathematics 111, 112, 113. A candidate for the master's degree may use the undergraduate courses 121, 122, 123, toward the master's degree up to a limit of fifteen hours, if he has failed to register for such courses in his undergraduate studies. This must be done in conformity with the regulations governing such usage in the fore part of the catalog.

COURSES

- | | |
|--|-----------------------------------|
| 201, 202, 203. Advanced Calculus. | (3, 3, 3) A W S |
| | Marshall |
| 221. Vector and Tensor Analysis. | (3) A |
| | Gardner |
| 222, 223. Partial Differential Equations. | (3, 3) W S |
| | Gardner |
| 231, 232, 233. Functions of a Complex Variable. | (2, 2, 2) A W S |
| | Marshall |
| 292, 293, 294. Readings in Mathematics. | (1-3) A W S |
| | Marshall, Hales Gardner, Eastmond |
| 300. Thesis. | Staff |

See also Physics 205, 206, 207, 211, 212, 213, which may be applied on a mathematics major or minor.

Modern and Classical Languages

Professor Emeritus Cummings; Professors de Jong,
Lee (chairman), Nibley, Sperry; Associate Professor
Rogers; Assistant Professors Clark, Taylor, Valentine;
Mr. Gibson.

Fields: French, German, Greek, Latin, Portuguese, Spanish.

Full graduate standing is granted to students who have completed courses 1, 2, 3, 101, 102, 103, 104, 105, 121, 122, 123, 131, 132, 133 in the language chosen as a major, or who have the equivalent background. No provisional admission may be granted on a lesser background. Minors in these fields must have completed courses 1, 2, 3, 101, 102, 103, and 104, or have a fluent reading knowledge of the language elected.

Majors and minors are defined as follows: The major and the minor may be chosen in the language area or the literature area of any one of the languages. If either is chosen as the major, the other becomes the minor. As an alternative, a combination of language and literature of one language may be designated the major, and the minor may be built of courses in the second language, but such a program is to be approved by the head of the department who may require more than the University minimum quantity of credit for the minor. The minor may be in any one of several other departments subject to approval.

Courses required for a master's degree in French, German and Spanish are offered in a two year cycle. Those marked with an asterisk in this catalog belong to the sequence which begins in the autumn quarter of the odd numbered years.

COURSES IN FRENCH

- | | |
|---|---------------------|
| 201. French Composition and Conversation. | (3) S
Lee, Clark |
| *231. Old French Literature. | (3) W
Clark |
| *233. French Literature of the Renaissance. | (3) S
Clark |
| 234. French Literature of the Seventeenth Century. | (3) A
Lee |
| 235. French Literature of the Eighteenth Century. | (3) W
Lee |
| 237. French Literature of the Twentieth Century. | (3) W
Cummings |

241. Moliere. (3) W
Clark
251. French Drama of the Nineteenth Century. (3) S
Cummings
- *252. Modern and Contemporary French Drama. (3) W
Lee
253. French Novel of the Nineteenth Century. (3) S
Lee
- *254. Modern French Novel. (3) A
Lee
- *255. Contemporary French Novel. (3) S
Cummings
- *261. Introduction to French Civilization. (3) A
Cummings
- 291, 292, 293. French Seminar. (1, 1, 1) A W S
Cummings, Lee, Clark
300. Thesis for Master's Degree. Staff

COURSES IN GERMAN

201. German Composition and Conversation. (3) A
de Jong
- *237. Contemporary German Literature. (3) A
Rogers
- *241. Lessing. (3) A
de Jong
- *242. Schiller. (3) W
de Jong
- *243. Goethe. (3) S
de Jong
251. The German Drama. (3) A
Rogers
254. The German Novel. (3) W
Rogers
256. The German Novella. (3) S
Rogers
258. German Lyric Poetry. (3) W
de Jong
- *261. Cultural History of Germany. (3) W
Rogers
- *294. Seminar in Literature. (2) S
Rogers
300. Thesis for Master's Degree. Staff

COURSES IN GREEK AND LATIN

- 264, 265, 266. **Second Year Greek.** (3, 3, 3) A W S
Prerequisite: One year of Greek. Nibley
- 267, 268, 269. **The Greek New Testament.** (3, 3, 3) A W S
Prerequisite: One year of Greek. Nibley
- 271, 272, 273. **Greek Patristic Writers.** (2-3) A W S
Prerequisite: Two years of Greek or consent of instructor. Nibley
- 281, 282, 283. **The Latin Fathers.** (3, 3, 3) A W S
Prerequisite: Consent of Instructor. Nibley
- 284, 285, 286. **Medieval Latin.** (2-3) A W S
Prerequisite: Consent of Instructor. Nibley
300. **Thesis for Master's Degree.** Staff

COURSES IN PORTUGUESE

- 201, 202, 203. **Portuguese Composition and Conversation.** (3, 3, 3) A W S
de Jong
231. **Introduction to Portuguese Literature.** (3) A
de Jong
232. **Portuguese Literature.** (3) W
de Jong
233. **Contemporary Portuguese Literature.** (3) S
de Jong
255. **Introduction to Brazilian Literature.** (3) A
de Jong
256. **Brazilian Literature.** (3) W
de Jong
257. **Contemporary Brazilian Literature.** (3) S
de Jong
294. **Portuguese Seminar.** (3) A W S
de Jong
296. **Individual Study.** (2, 2, 2) A W S
Staff
300. **Master's Thesis.** Staff

See also Spanish 259, 271, which may be applied to this field.

COURSES IN SPANISH

201. **Spanish Composition and Conversation.** (3) S
Taylor
231. **Medieval Literature.** (3) A
Prerequisite: 133 or equivalent. Taylor
- *232. **Cervantes Don Quixote.** (3) W
Prerequisite: 133 or equivalent. Gibson
233. **Drama of the Spanish Golden Age.** (3) W
Prerequisite: 133 or equivalent. Taylor
- *236. **Spanish Literature of the 19th Century.** (3) A
Prerequisite: 133 or equivalent. Gibson
- *237. **Literature of the 20th Century in Spain.** (3) W
Prerequisite: 133 or equivalent. Taylor
- *251. **Drama of the 20th Century in Spain.** (3) S
Prerequisite: 133 or equivalent. Taylor
- *252. **Spanish Novel of the 19th Century.** (3) A
Prerequisite: 133 or equivalent Taylor
- *255. **Spanish American Poetry.** (3) W
Valentine
271. **Hispanic-American Civilizations.** (3) W
Valentine
294. **Spanish Seminar.** (3) A W S
Valentine, Taylor
300. **Master's Thesis.** Staff

COURSES IN SEMITIC LANGUAGES

See Department of Semitic Languages for courses in Hebrew, Aramaic, Syriac, Akkadian, and Egyptian.

COURSES IN LINGUISTICS

201. **Introduction to Language Science.** (3) S
Gibson
221. **Studies in Criticism.** (3) A
Cummings
231. **Introduction to Romance Philology.** (3) A
Clark
- *246. **Old French Morphology and Phonology.** (3) A
Clark

- | | |
|--|-----------------|
| 251. History of the Spanish Language. | (3) W
Gibson |
| 266. Gothic and Introduction to Comparative German Grammar. | (5) W
Staff |
| *267. Old High German and Old Saxon. | (3) W
Staff |
| *268. Middle High German. | (3) A
Rogers |
| 291. Seminar in Philology. | (2) S
Staff |

Music

Professors de Jong, Halliday (chairman); Associate Professors Dallin, Sardoni; Assistant Professors Earl, Gates, Gulbrandsen, Weight; Mr. Hunt, Mr. Keeler, Mr. Laycock, Mr. Wakefield.

Fields: Music Theory
Musicology
Applied Music (minor only)

Full graduate standing is granted to prospective majors who have completed 30 hours of harmony, solfeggio, and keyboard harmony, 9 hours of history of music, and demonstrated proficiency in one's medium. Provisional standing may be given to one who has completed the first requirement plus either the second or third, with the understanding he will complete the other one while doing his graduate work. Requirements for admission as a minor in the field are the same as for majors.

In order to elect applied music as a minor field, the institutional requirements of an undergraduate major in applied music must be met. Students minoring in applied music are required to study major instrument every quarter of enrollment.

COURSES IN MUSIC THEORY

- | | |
|--|-----------------|
| 211, 212, 213. Counterpoint. | (3, 3, 3) A W S |
| Prerequisite: 123. | Dallin, Gates |
| 221, 222. Form and Analysis. | (3, 3) A W |
| Prerequisite: 123. | Dallin |
| 223. Materials of Modern Music. | (3) S |
| Prerequisite: 123. | Dallin |
| 231, 232, 233. Instrumentation. | (3, 3, 3) A W S |
| Prerequisite: 123. | Sardoni, Gates |

- 271, 272, 273, 274, 275, 276. Composition.** (3, 3, 3, 3, 3, 3) A W S
Prerequisites: 123; Musicology 186. Dallin
- 300. Thesis for Master's Degree.** Staff

COURSES IN MUSICOLOGY

- 214. Music of the Seventeenth Century.** (3) A
Prerequisites: 161, 162, 163, 184, 185, 186. Wakefield
- 215. Music of the Eighteenth Century.** (3) W
Prerequisites: 161, 162, 163, 184, 185, 186. Keeler
- 216. Music of the Nineteenth Century.** (3) S
Prerequisites: 161 162, 163, 184, 185, 186. Wakefield,
Weight
- 284, 285, 286. Music Literature.** (3, 3, 3) A W S
Prerequisite: 186. Dallin, Wakefield
- 294, 295, 296. Seminar.** (2, 2, 2) A W S
Prerequisites: 186; Theory of Music 123. Dallin, Halliday
- 300. Thesis for Master's Degree.** Staff

See also Music Theory 223 which may be applied to this field.

COURSES IN APPLIED MUSIC

- 231, 232, 233, 234, 235, 236-p. Private Instruction.** (2) A W S
Ten lessons per quarter.
- Prerequisite: Excellence attained to the equivalent of two years of private study on the college level.
- Strings: Violin, Viola, Cello, String Bass.
Sardoni, Dallin, Laycock
- Woodwinds: Flute, Oboe, Clarinet, Saxophone,
Bassoon. Halliday
- Brass: Trumpet, Cornet, French Horn, Trombone,
Baritone, Tuba. Halliday, Hunt
- Percussion: Drums and Tympani. Staff
- Piano: Keeler, Wakefield, Gates, Fuerstner
- Organ: de Jong, Keeler
- Voice: Halliday, Weight, Earl, Gulbrandsen
- 237. Solo Recital.** (2) A W S
Required of all students minoring in applied music.

See also Musicology 284, 285, 286 which may be applied to this field.

Philosophy of Education and Guidance

Professors Lloyd (chairman), Romney;
Associate Professor Clark; Assistant Professors
Isaacson, Stone; Mr. Jensen.

Fields: Philosophy of Education
Personnel and Guidance

Full graduate standing for a major in philosophy of education is granted students who have a background equivalent to the certification requirements for Utah public school teachers. One who has approximately 25 hours of the 33 required for certification may be admitted provisionally while he makes up the deficiency.

Full graduate standing for a major in personnel and guidance is granted students who intend to prepare for work in public schools when they have Utah certification. Those who intend to prepare for positions in government, industry, or business, must have sufficient orientation in the field to be ready for advanced courses, but each case is evaluated individually.

Those who minor in either field must have met the prerequisites for any courses they take in their graduate programs.

COURSES IN PHILOSOPHY OF EDUCATION

- | | |
|--|---------------------------|
| 218. Introduction to Research and Thesis Writing. | (3) Arr.
Staff |
| 274. (Comparative Education.) | (3)
Romney |
| 275. (Education in the Social Order.) | (3)
Lloyd |
| 282. (History of Philosophy.) | (3)
Swenson |
| 291. (Social Ethics.) | (3)
Lloyd |
| 292. Readings in Philosophy of Education. | (3) A W S
Lloyd, Staff |
| 295. Seminar in Philosophy of Education. | (2) A W S
Staff |
| 300. Thesis. | Staff |

See also History 212, Education 297, Psychology 229, and Church History and Philosophy 281, 282, 283, 284, which may be applied to this field.

COURSES IN PERSONNEL AND GUIDANCE

- | | |
|--|----------------------|
| 218. (Research and Thesis Writing.) | (3)
Staff |
| 267. Individual and Group Counseling. | (3) W
Jensen |
| 268. Test Techniques in Guidance. | (3) A
Stone |
| 281. Administration of Guidance Services in
Public Schools. | (3) W
Romney |
| 283. Occupational Information and Counseling. | (3) S
M. H. Clark |
| 284. Industrial Counseling. | (3) W
Stone |
| 285. Case Studies in Guidance. | (3) W
Staff |
| 288. Student Personnel Services in Higher Education | (3)
Lloyd |
| 293. Internship in Counseling. | (3) Arr.
Staff |
| 296. Directed Readings. | (2) A W S
Staff |
| 297. Seminar in Personnel and Guidance. | (3) A W S
Staff |
| 298. Internship in Testing. | Arr.
Staff |
| 300. Master's Thesis. | Staff |
| 301. Field Project. | Staff |

See also Psychology 213, 227, 228, 229, 238, 250, 251, 272; Sociology 230; and Education 270 and 273, which may be counted in this field.

Physical Education

Professors Hart (chairman), Holbrook, Kimball;
Assistant Professors Dixon, Soffe.

Field: Physical Education

Full graduate standing for a major in this field is granted students who have completed Physical Education 51 to

56 inclusive, 88, 89, 101 to 104 inclusive for men, or 80 to 85 inclusive and 87 for women, 130, 141, 146, and 154; and Zoology 45, or the equivalent. Provisional graduate standing will be granted to those who have not more than 6 hours of deficiency in the foregoing list, with the understanding they will remove the deficiency after admission. Permission to minor in the field is given to those who have completed Physical Education 51 to 56, 88, 130, and 141, and in addition, for men 101 to 104, and for women 80 to 82. Provisional permission for minors is granted when not less than 20 hours of these requirements have been met, the rest to be met after admission.

COURSES

- | | |
|---|--------------------|
| 230. Community Recreation. | (3) S
Holbrook |
| 235. History and Philosophy of Physical Education. | (5) W
Holbrook |
| 236. Curriculum Construction and Current Problems. | (5) S
Hart |
| 247. Principles and Practices of
Physical Reconditioning.
Prerequisites: 141, 146, and Health 45, or equivalents. | (3) A
Dixon |
| 255. Advanced Tests and Measurements in
Health Education and Physical Education.
Prerequisite: 154 or equivalent. | (3) W
Hart |
| 292. Research and Seminar. | (5) A
Hart |
| 294. Readings in Physical Education. | (2) A W S
Staff |
| 300. Thesis. | Staff |
| 301. Field Project. | Staff |

Physics

Professors Fletcher, Hales, Marshall (chairman);
Associate Professor Eastmond;
Assistant Professor Gardner.

Field: Physics

A student seeking a master's degree in physics must have fulfilled the equivalent of the requirements for an un-

dergraduate major in Physics. Where the student needs to use upper division credit toward the master's degree, those hours may be elected from the upper division courses in physics with the approval of the department and in conformity with the regulations governing requirements for the degree in the fore part of the catalog.

COURSES

201, 202, 203. Introduction to Modern Physics.	(3, 3, 3) A W S Eastmond
205, 206, 207. Introduction to Theoretical Physics.	(3, 3, 3) A W S Hales
211. Advanced Mechanics.	(3) A Gardner
212. Dynamics.	(3) W Gardner
213. Theory of Relativity.	(3) S Gardner
231, 232, 233. (Spectroscopy.)	(2, 2, 2) A W S Eastmond
241, 242, 243. (Elementary Quantum Mechanics.)	(3, 3, 3) A W S Gardner
291. Readings in Modern Physics.	(1, 1, 1) A W S Marshall, Hales, Gardner, Eastmond
292, 293, 294. Classical Experiments.	(2, 2, 2) A W S Marshall, Hales, Gardner, Eastmond
295, 296, 297. Seminar.	(1, 1, 1) A W S Marshall, Hales
300. Thesis.	Staff

See also Mathematics 221, 22, 223, which apply on a Physics major or minor.

Political Science

Professor Swensen (chairman); Assistant Professors Caldwell, Grow.

Field: Political Science

Full graduate standing for a major in this field is granted those who have completed approximately the equivalent of an undergraduate major in the field. A minor may be undertaken with somewhat less background, after consultation with the chairman of the department.

I. COURSES IN POLITICAL THEORY

- | | |
|--|-------------------|
| 201. (Development of Early, Medieval Political Ideas.) | (3) A
Staff |
| 202. Development of Modern Political Ideas. | (3) W
Caldwell |
| 203. Development of American Political Ideas. | (3) S
Staff |
| 204. (Development of Modern Political Constitutions.) | (3)
Staff |

II. COURSES IN POLITICS

- | | |
|---|----------------|
| 210. American Political Problems. | (3) S
Grow |
| 215. (Public Opinion and Political Behavior.) | (3) S
Staff |
| 220. (Legislative Processes.) | (3) S
Staff |

III. COURSES IN PUBLIC ADMINISTRATION

- | | |
|--|----------------|
| 230. (Comparative Public Administration.) | (3) A
Staff |
| 232. (State, Municipal Administration.) | (3) W
Staff |
| 295. Theory and Practice of Public Administration. | (3) W
Grow |

IV. COURSES IN COMPARATIVE GOVERNMENTS

- | | |
|--|----------------|
| 240. Modern Democratic Government. | (3) W
Staff |
| 241. (Development of Totalitarian Government.) | (3) A
Staff |

V. COURSES IN INTERNATIONAL LAW
AND RELATIONS

- | | |
|--|----------------|
| 269. (Analysis of International Organization.) | (3)
Staff |
| 270. Growth of International Relations in the Twentieth Century. | (3) A
Staff |
| 276. (Inter-American System.) | (3) W
Staff |
- (See also 280.)

VI. COURSES IN PUBLIC LAW

280. (Analysis of Modern International Law.) (3) S
Staff
286. (Constitutional Law in 20th Century.) (3) S
Staff
288. Supreme Court of the United States. (3) S
Caldwell

OTHER COURSES

298. Directed Readings. (2) A W S
Staff
300. Thesis for Master's Degree. Staff

See also History 206, which may be counted in Political Science.

Psychology

Professor Emeritus Poulson; Professor Woodruff (acting chairman); Associate Professors Allen, Braithwaite; Assistant Professors Brown and Howell.

Fields: Clinical Psychology
Educational Psychology
General Psychology

Permission to major in psychology at the graduate level is granted to those who have approximately the equivalent of the undergraduate major requirements. In their graduate programs, all majors are required to register for at least one seminar.

COURSES IN CLINICAL PSYCHOLOGY

230. Advanced Clinical Psychology. (2) S
Staff
231. Psychosomatic Problems. (3) A
Staff
238. Deviate Children (3) A
Staff
272. Individual Test Practice. (3) S
Staff

See also 212, 213, 227, 228, 250, 251, which may be applied to this field.

COURSES IN EDUCATIONAL PSYCHOLOGY

227. Case Techniques in Schools. (2) W
Staff
228. Learning. (3) W
Staff
229. Educational Psychology. (3) S
Staff
245. Group Dynamics. (3) S
Staff

See also 212, 213, 238, 250, 251, which may be applied to this field.

COURSES IN GENERAL PSYCHOLOGY

212. Perception and Sensation. (3) A
Staff
213. Advanced Statistics. (3) W
Staff
250. Human Behavior: Theory. (3) A
Staff
251. Human Motivation: Culture and Adjustment. (3) W
Staff

See also 228, 238, which may be used in this field.

OTHER COURSES

- 291, 292. Seminar. (1) A W S
Staff
298. Independent Readings. (1-3) A W S
Staff
299. Independent Research. (1-3) A W S
Staff
300. Thesis. A W S
Staff

Scripture

Professors Nibley, Sperry (chairman); Mr. Rasmussen,
Mr. Patch.

Field: Scripture

Anyone who expects to major in this field should have suitable preparation through introductory courses in Old and New Testament, Book of Mormon, Doctrine and Covenants, and Pearl of Great Price, such as are available to undergraduates in Brigham Young University. Unless the student has credit for such introductory courses the chairman of the department may require him to pass a qualifying examination. Those whose background is found deficient will be required to take suitable preparatory courses for which no graduate credit will be allowed.

COURSES

- | | |
|---|----------------------------|
| 201. The History of Israel. | (2) A
Sperry, Rasmussen |
| 202. The Prophets of Israel. | (2) W
Sperry, Rasmussen |
| 203. The Manners and Customs of the Hebrews. | (2) S
Sperry |
| 204. Interpreting the Old Testament. | (2) S
Sperry, Rasmussen |
| 206. The Life and Teachings of the Christ. | (2) A
Patch |
| 207. The Life and Letters of Paul. | (2) W
Patch |
| 208. The Non-Pauline Epistles and the Apocalypse. | (2) S
Patch |
| 209. Interpreting the New Testament. | (2) S
Patch |
| 211. An Analysis of the Book of Mormon. | (2) A
Sperry |
| 213. An Analysis of the Doctrine and Covenants. | (2) W
Sperry |
| 215. The Pearl of Great Price. | (2) S
J. R. Clark |
| 300. Thesis for Master's Degree. | Staff |

See also Greek 267, 268, 269, and Latin 281 to 286, which may be applied to this field.

Students specializing in the Bible have the opportunity of continuing their studies in the Near East. Brigham Young University is a member of the Corporation of the American Schools of Oriental Research, and its students may attend the American School at Jerusalem or the one at Bagdad with-

out tuition charges. Students may compete for one of the Fellowships offered annually by the schools, providing financial aid beyond tuition.

It is recommended that students who expect to become specialists in the field of Scripture elect Greek or Hebrew, or both, as necessary tools. This should be done with the advice and consent of the student's chairman.

Secondary Education

Professor Woolf (chairman);

Associate Professors A. J. Clarke (act'g chairman), A. B. Hart; Assistant Professors Bauer, Gunn, Lewis, Madsen.

Field: Secondary Education

Students registering for graduate courses in secondary education should have completed certain undergraduate courses which will give an adequate background in the field. These courses should include Secondary Education 181, 194, and Education 163 or equivalent. Graduate courses presuppose previous course work in the area. Certified teachers will, in general, be admitted to graduate courses.

Majors in secondary education are required to have secondary school certificates as a background, and to take Education 218, Secondary Education 291, 297, and 299, a minimum of nine quarter hours of which must be taken in residence. Majors should have formal course experience on either a graduate or an undergraduate level in the following areas: statistical methods, educational tests and measurements, audio-visual education, advanced educational psychology, and special methods of teaching the subject matter field of major interest. These courses may be taken either in residence or by extension. Other courses which are recommended but not required are: Philosophy of Education 274 and 294, Personnel and Guidance 267, and Educational Administration 295, 296. These courses should be taken only after approval by the committee chairman.

Minors in secondary education are required to take Secondary Education 291 and 297 in residence. They may elect courses from statistical methods, educational tests and measurements, audio-visual education, advanced educational psychology, and a course on the junior high school. The committee chairman should be consulted about elective courses. Elective courses may be taken in residence or by extension.

For those students who have an elementary teaching certificate and who are working toward an administrator's certificate, the department recommends Secondary Education 194, 291, and 297.

COURSES

- 240-50. **Research in Secondary Education.** (1-3) A W S
Prerequisite: Consent of the instructor. Clarke
260. **Improved Methods in Reading for Teachers of Secondary Schools.** (3) W
Hart, Bauer
261. **Teaching Art in the Secondary Schools.** (3) W
Gunn
262. **Teaching English in the Secondary Schools.** (3) S
Hart, Bauer
263. **(Teaching Home Economics in the Secondary Schools.)** (3) W
Staff
264. **Teaching Mathematics and Science in the Secondary Schools.** (3) W
Staff
265. **Teaching Music in the Secondary School.** (3) W
Madsen
266. **Teaching Social Studies in the Secondary Schools.** (3) S
Caine
267. **(Teaching Speech in the Secondary Schools.)** (3) W
Lewis
279. **Readings in Development of Secondary Schools and Current Theories and Practices.** (1-3) A W S
Clarke
280. **Readings in Secondary School Subjects.** (1-3) A W S
Prerequisite: Conference with instructor. Clarke
284. **Advanced Student Teaching for Experienced Teachers.** (2-8) A W S
Clarke
Prerequisite: Field experience plus approval of special committee and chairman of department.
Application should be made in advance.
291. **The High School Curriculum.** (3) A
Clarke
297. **The Senior High School.** (3) W
Clarke
299. **The Junior High School.** (3) S
Clarke
300. **Thesis for Master's Degree.** Staff
301. **Field Project.** Staff

See also Educational Administration 295 and 296, which may be applied to this field.

Semitic Languages

Professors Nibley, Sperry (chairman); Mr. Rasmussen.

Field: Semitic Languages.

Those who expect to major in this field should have a definite aptitude for languages. Semitic languages are of exceptional value in the study of scripture and in certain subdivisions of archeology.

COURSES

221, 222, 223. Elementary Hebrew.	(5-5-5) A W S Sperry
224, 225, 226. Intermediate Hebrew.	(3-3-3) A W S Sperry
227, 228, 229. Advanced Hebrew.	(2-2-2) A W S Sperry
231, 232, 233. Biblical Aramaic and the Targums. Prerequisites: 221, 222, 223.	(2-2-2) A W S Sperry
241, 242, 243. Elementary Syriac. Prerequisites: 221, 222, 223.	(3-3-3) A W S Sperry
244, 245, 246. Advanced Syriac.	(2-2-2) A W S Sperry
251, 252, 253. Elementary Akkadian. Prerequisite: Two years of Hebrew or consent of instructor.	(2-2-2) A W S Sperry
255, 256, 257. Elementary Egyptian. (Hieroglyphic) Prerequisite: Two years of a Semitic Language or consent of instructor.	(2-2-2) A W S Sperry
300. Thesis for Master's Degree	Staff

Sociology

Professors Ballif (chairman), Bradford;
Assistant Professors Canning, Payne, Smith.

Field: Sociology

Full graduate standing for a major in this field is granted those who have completed Sociology 11, 12, 103, 104, 182, 186, and 188 or 189, or the equivalent. Provisional standing will be granted those who have not yet completed 188 or 189, while they make up the deficiency. Permission to minor in the

field is granted those who have completed approximately 20 hours including 11, 12, 103, and 104, as an absolute minimum.

COURSES

205. Advanced Sociological Thought.	(3) W Canning, Smith
206. Advanced Contemporary Sociology.	(3) S Smith
230. Problems in Race Relations.	(3) A Ballif
290. Seminar.	(2) A Smith
292. Public Opinion.	(3) S Ballif
296, 298. Special Research Problem.	(1-3) A W S Staff
300. Thesis for Master's Degree.	Staff

Speech and Dramatic Arts

Professor Emeritus T. Earl Pardoe; Professors Hansen (chairman), Morley; Associate Professor Gledhill; Assistant Professors Bateman, Clinger, Ludlow, Kathryn Pardoe.

Fields: Public Speaking and Interpretation
Radio
Speech Pathology
Theatre and Dramatic Art.

For full graduate standing as a major in public speaking and interpretation, radio, or theatre and dramatic art, the student must present as background Speech 1, 20, 22, 41, and 160 or their equivalent.

For full graduate standing as a major in speech pathology the student must present as background Speech 1, 4, 20, 60, and 180 or their equivalent.

During their first quarter of graduate study, candidates for the master's degree must pass an oral test consisting of a ten to fifteen minute program before a committee of the speech faculty. They must also pass a written test to demonstrate proficiency in background in the area in which they elect to major.

COURSES IN PUBLIC SPEAKING AND INTERPRETATION

- | | |
|---|---|
| 201. Ancient Rhetoric and Oratory. | (3) A
Bateman |
| 202. History of British Public Speaking. | (3) W
Bateman |
| 203. American Oratory and Public Address. | (3) S
Bateman |
| 210. Seminar — Public Speaking. | (2-3) Arr.
Bateman and Morley |
| 215. Regional Dialects and Linguistic Atlas.
Prerequisites: 60, 61, or 62. | (3) S
T. E. Pardoe |
| 230. Seminar in Interpretation. | (1-4) Arr.
T. E. Pardoe, Gledhill, K. Pardoe |
| 235. Theory of Interpretation. | (3) Arr.
Gledhill |
| 236. Oral Interpretation of Classic Literature. | (3) Arr.
Gledhill |
| 237. Program Building and Lecture Recital. | (3) Arr.
Gledhill |
| 300. Thesis. | Staff |

See also 100, 101, 103, 120, 121, 172, which may be counted in this field in harmony with general regulations of the Graduate School.

COURSES IN RADIO

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|----------------------------|----------------------|
| 242. Radio Script Writing. | (3) W
Ludlow |
| 250. Seminar in Radio. | (2-4) Arr.
Ludlow |
| 252. Projects in Radio. | (2-4) Arr.
Ludlow |
| 300. Thesis. | Staff |

See also 143, 144, 145, and 215, and Journalism 206, and 294, which may be applied to this field.

COURSES IN SPEECH PATHOLOGY

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|--|---------------------|
| 281a, 281b, 281c. Seminar in Speech Pathology.
Prerequisite: 185. | (3) A W S
Morley |
|--|---------------------|

282. Seminar in Methodology of Speech Correction. (1-3) Arr. Morley
283. Seminar in Audiology. (1-3) Arr. Jex
Prerequisite: 184.
286. Anatomy of the Ear and Vocal Organs. (3) W Morley
287. Psychology of Speech. (3) S Morley
Prerequisite: 4; Psychology 11.
288. Seminar in the Psychophysics of Speech. (1-3) S Morley
Prerequisite: 4.
300. Thesis. Staff

See also Psychology 130, 139, 143, 167, 171, 230, and 272, which may be applied to this field in keeping with general regulations of the Graduate School.

COURSES IN THEATRE AND DRAMATIC ARTS

- 225, 226, 227. History of the Theatre. (3-3-3) A W S Hansen
228. Stage Design. (3) W Gledhill
229. Playwriting. (3) W T. E. Pardoe
232. Experimental Theatre. (2-4) Arr. Hansen
234. Projects in Theatre. (2-4) Arr. Gledhill
236. Stage Lighting. (1-3) Arr. Staff
238. Seminar in Arena Theatre. (2-4) Arr. Hansen
264. Advanced Play Production (3) A W S Hansen, Gledhill
290. Problems of the Production Director. (3) Arr. Hansen
300. Thesis. Staff

See also 215, 230, and 236; English 260, 264, 146, 162, 163, and 182; and History 294 and 295, which may be applied to this field.

Zoology and Entomology

Professor V. M. Tanner (chairman); Associate Professors
Beck, Hayward; Assistant Professors Nicholes, W. W. Tanner

Fields: Zoology
Entomology

COURSES IN ZOOLOGY

- | | |
|---|---------------------------------|
| 210, 211. Advanced Ichthyology. | (3-3) A W
V. M. Tanner |
| 212. Literature and Zoology of the Great Basin. | (3) S
V. M. Tanner |
| 213, 214. Natural History of the Amphibians
and Reptiles.
Prerequisites: 159, 160. | (3, 3) A W
W. W. Tanner |
| 215. Advanced Herpetology.
Prerequisites: 159, 160. | (3) S
W. W. Tanner |
| 216, 217, 218. The Anatomy of the
Amphibia.
Prerequisite: 160. | (3, 3, 3) A W S
W. W. Tanner |
| 219. Geographical Distribution of the
Cold-Blooded Vertebrates. | (2) A
V. M. Tanner |
| 223. Advanced Ornithology.
Prerequisites: 158 or equivalent. | (3-5) S
Hayward |
| 226. (Advanced Mammalogy.)
Prerequisite: 157 or equivalent. | (3-5) A
Hayward |
| 231. Advanced Ichthyology. | (3) S
V. M. Tanner |
| 241. Advanced Ecology.
Prerequisites: 46, 153 or equivalents and
a good background in botany. | (3-5) S
Hayward |
| 255, 256, 257. Distributional Study of
Parasitic Arthropods. | (3, 3, 3) A W S
Beck |
| 261, 262, 263. Studies in the Distribution
of the Invertebrates. | (3, 3, 3) A W S
Beck |
| 265, 266. Special Problems in
Invertebrate Zoology. | (Arr.) A S
Beck |
| 267, 268, 269. Body Fluids, Neurology,
Endocrinology. | (3, 3, 3) A W S
H. Nicholes |

08. Seminar, Invertebrate Zoology. (2) A
Staff
09. Seminar, Vertebrate Zoology. (2) W
Staff
- 98, 299. Graduate Seminar. (1, 1) A W
Staff
00. Thesis for Master's Degree. Staff

COURSES IN ENTOMOLOGY

- 02, 204. Systematic Entomology. (3, 3) A S
V. M. Tanner
06. Insect Morphology. (3) W
V. M. Tanner
07. Study of Insect Genitalia. (3) S
V. M. Tanner
08. Insect Literature and Nomenclature. (3) A
V. M. Tanner
09. History of Entomology. (2) W
Required of all graduate majors
in Entomology. V. M. Tanner
00. Thesis for Master's Degree. Staff

1. The American Medical Association is a non-profit corporation organized for the purpose of promoting the interests of the medical profession and the public.
2. The Association is organized into a national body and a number of local bodies.
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4. The Association is organized into a national body and a number of local bodies.
5. The Association is organized into a national body and a number of local bodies.

ARTICLE IV

Section 1. The Association shall have the right to elect and remove its officers and members.

Section 2. The Association shall have the right to elect and remove its officers and members.

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Section 16. The Association shall have the right to elect and remove its officers and members.



